

RE: 24 Site Inf Project Lot/Blo Model: Addres	411-0320- formation: Customer ck: Cooper I ss:	I - Cooper III : : DRB Raleig II Rev. 4	Rev.4-El Jh Proje	ev - 7- ct Nan ິຣເ	Roof ne: DRB ubdivision	Raleigh Model ::	Track	Trenco 818 Soundside Rd Edenton, NC 27932	
City: Genera	l Truss Er	ngineering Cı	iteria &	St Desig	ate: n Loads ((Individual Tru	ıss Design		
Drawing Design Wind Co Wind Sp	gs Show S Code: IR(ode: ASCE peed: 120 n	Special Load C2021/TPI20 7-16 nph	i ng Con d 14	ditions	5): I I H	Design Program: Design Method: Floor Load: N/A	: MiTek 20/2 MWFRS (Ei A psf	20 25.2 nvelope)/C-C hybrid	Wind ASCE 7-16
Mean R	oof Height	(feet): 25]	Exposure Catego	ory: B		
No. 1	Seal#	Truss Name	Date	No. 35	Seal# 174616802	Truss Name 2 V3	Date 7/2/25		
2345	174616769	B1	7/2/25	36 37 38 39	174616804 174616805 174616806	4 PB1G 5 D1G 6 D1	7/2/25 7/2/25 7/2/25		
6 7 8	174616773	PB3	7/2/25	40 41	174616808 174616809	3 A3G 9 V5	7/2/25 7/2/25		
9 10 11 12 13 14	174616776 174616777 174616778 174616779 174616780 174616781	C1 C1A V2 V1 P2 PB1	7/2/25 7/2/25 7/2/25 7/2/25 7/2/25 7/2/25	43 44 45 46 47 48	174616810 174616812 174616812 174616813 174616814 174616814	0 C1G 1 V7 2 V6 3 A5 4 A4AT 5 A5G	7/2/25 7/2/25 7/2/25 7/2/25 7/2/25 7/2/25		
16 17	174616783	VG4	7/2/25	49 50	174616816 174616817 174616818	6 G2G 7 H2G 3 H2	7/2/25 7/2/25 7/2/25		
18 19 20 21 22 23 25 26	174616785 174616786 174616787 174616788 174616789 174616790 174616791 174616792	PB4 G2B A4A G2 G2A A1T A1A H1	7/2/25 7/2/25 7/2/25 7/2/25 7/2/25 7/2/25 7/2/25 7/2/25 7/2/25						
27 28	174616794 174616795	PB3G P1G	7/2/25 7/2/25						
29 30 31	174616797	B1G	7/2/25						
32 34	174616800 174616801	P2G V4	7/2/25 7/2/25						
The trus Truss E provide Truss I My lice IMPOR that the designs shown (e given to TRENCC preparat applicab the build incorpora	ss drawing(s ngineering (d by Structu Design Eng ense renewa RTANT NO engineer name comply with Al e.g., loads, sup MiTek or TRE D's customers ion of these de ility of the desi ing designer s ate these designer	s) referenced al Co. under my co Iral, LLC. gineer's Name I date for the st TE: The seal on the NSI/TPI 1. These oports, dimensions NCO. Any project file reference purp usigns. MiTek or T gn parameters or to hould verify applica- gns into the overall	e: Tony N ate of Nor these truss of a jurisdiction designs are t specific infu ose only, ar RENCO has he designs ability of des building de	been p ervision Alller eth Card compone (s) identi based u d design ormation d was na s not inde for any p sign para sign per	brepared by based on blina is De nt designs is ified and that pon paramete codes), whic included is fo ot taken into a spendently ve articular build meters and p ANSI/TPI 1, 0	the parameters cember 31, 2025 a certification the ers h were or MiTek's or account in the erified the ding. Before use, roperly Chapter 2.	NO ROLL	CAROL SSION A	Iuly 2 2025

Tony Miller

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A3	Attic	12	1	Job Reference (optional)	174616768

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:35 ID:eW?e6daPLXKyNUOUDcC2wYyATYH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:106.8

Plate Offsets (X, Y):	[4:0-3-0,0-3-4], [5:0-3-0,0-1-12], [9:0-5-8,0-2-0]
-	

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	1.00 0.66 0.96	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.40 -0.54 0.05 0.02	(loc) 20-22 20-22 11 20-22	l/defl >795 >591 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS MT20HS Weight: 341 lb	GRIP 244/190 186/179 187/143 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD WEBS JOINTS REACTIONS FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 *Excep 2x4 SP SS 2x4 SP No.3 *Excep SP No.2 Left 2x6 SP No.2 2 Structural wood sheat except end verticals, (6-0-0 max.): 5-9. Rigid ceiling directly 1 Row at midpt 1 Brace at Jt(s): 23, 24 (size) 1=0-3-8, 1 Max Horiz 1=186 (LC Max Grav 1=1406 (L 19=2289 (I (lb) - Maximum Com Tension 1-3=-1988/104, 3-5= 6-8=-353/19, 8-9=-5i 10-11=-1249/0 1-22=-183/1720, 200 19-20=0/613, 16-19= 12-13=0/570, 11-12= 5-20=-45/299, 8-19= 17-23=0/791, 8-23=(14-22=0/584, 10-12=(9-23=-33/0, 13-15=0 6-19=-962/44	t* 7-9:2x4 SP SS t* 8-16,9-12,23-24:2x 2-0-0 athing directly applied, 5-20, 8-19, 23-24, 10 4-20, 9-23, 6-19 (1=0-3-8, 19=0-3-8 2.16) (C 53), 11=1331 (LC (LC 50) pression/Maximum t-1873/5, 5-6=-884/36 81/0, 9-10=-752/0, 22=-2/1389, =0/575, 13-16=0/570, =-5/16 t-1355/0, 16-17=0/709 0/796, 12-14=-234/12 t4=-174/165, 15-17=0 0/73, 3-22=-262/104, 0/954, 4-20=-840/79, 1/195, 6-20=-23/866,	2) (4 (4, (3) ()-11, (4) (5) (55), (7) (7) (7) (7) (7) (7) (7) (7)	Wind: ASCE Vasd=95mph II; Exp B; End Exterior(2E) (Exterior(2R) 37-7-8, Exter left and right members and Lumber DOL TCLL: ASCE Plate DOL=1 1.15 Plate DOL Exp.; Ce=1.0 Unbalanced s design. 250.0lb AC u from left end, Provide adeq All plates are The Fabricati Plates check about its ceni This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and an Bottom chord chord dead lo 12-13 This truss ha load of 250.0	7-16; Vult=120mp ; TCDL=6.0psf; B closed; MWFRS (e 0-0-0 to 4-4-4, Inte 18-4-8 to 24-6-7, I ior(2E) 37-7-8 to 4 exposed ; end ver d forces & MWFR =1.60 plate grip D 7-16; Pr=20.0 psf; 15); Pg=20.0 psf; DL = 1.15); Is=1.0 ; Cs=1.00; Ct=1.1 snow loads have t nit load placed on supported at two juate drainage to p MT20 plates unle on Tolerance at j d onconcurrent v as been designed f d nonconcurrent v as been designed f b live load (20.0 ps boad (20.0 psf) app s been designed f lb live and 3.0lb d t all panel points a d, nonconcurrent v	ch (3-sec CDL=6.1 envelope rior (1) interior (table 1.60 f (roof LL Pf=20.2; Rough 0, Lu=50 poen cor the bott points, t prevent siss other bint 9 = 1 finus 5 do for a 10.1 with any t for a lu s where Il fit betw with BC shang a more aliced only for a more along the with any	cond gust) Dpsf; h=25ft; (and C-C 4-4-4 to 18-4 1) 24-6-7 to cone; cantilev exposed;C-C ctions shown cum DOL= tpsf (Lum DC Cat B; Partia)-0-0 asidered for th om chord, 33 5-0-0 apart. water ponding wise indicate 6% agree rotation 0 psf bottom other live loa e load of 20.0 a rectangle ween the bottk DL = 10.0psf dditional botty 'to room. 13- <i>v</i> ing concentr. ted at all mid Top Chord a other live loa	Cat. -8, /er 5 for ; 1.15 DL = lly -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d. -4-0 g. d.	14) This strucho the 15) Gra or ti bott 16) Attid LOAD (a truss d ctural w rd and 1 bottom o phical p he orient om chor c room c c CASE(S)	esign i ood sh /2" gyrj xhord. urlin rec attion o d. hecke) Stal	requires that a mi leathing be applie osum sheetrock b appresentation doe of the purlin along d for L/360 deflec indard	nimum of 7/16" d directly to the top le applied directly to s not depict the size the top and/or tion.
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for										WY R.	MILLINN

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	P1	Monopitch	12	1	Job Reference (optional)	174616769

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:OSB5YkJzx4txW1iFxUKym3zzB_t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.7

Plate Offsets ((Χ, ΄	Y):	[2:0-4-5,0-0-5]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-AS	0.65 0.85 0.49	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.18 0.01 0.03	(loc) 6-7 6-7 2 7-13	l/defl >999 >842 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 68 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this desigr 2) Wind: ASC Vasd=95m II; Exp B; I Exterior(21 zone; cani exposed; I) and forces DOL=1.60 3) TCLL: ASC Plate DOL 1.15 Plate Exp.; Ce=	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x4 SP No.3 - 1 Structural wood sheat except end verticals. Rigid ceiling directly (size) 2=0-3-0, 1 Max Horiz 2=101 (LC Max Uplift 2=-86 (LC Max Uplift 2=-86 (LC Max Grav 2=590 (LC (Ib) - Maximum Comp Tension 1-2=0/26, 2-4=-736/2 6-8=-155/441, 5-8=-1 2-7=-304/657, 6-7=-5 4-7=-63/353, 4-6=-63 ad roof live loads have b CE 7-16; Vult=120mph rph; TCDL=6.0psf; BCI Enclosed; MWFRS (en E) -1-0-0 to 2-0-0, Inter illever left and right exp oprich left and right e	-6-0 athing directly applied 5=0-1-8 (12), 15=-91 (LC 12) (2), 15=512 (LC 23) pression/Maximum 229, 4-5=-153/10, 155/441 304/657 39/305, 5-15=-515/2 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C ior (1) 2-0-0 to 12-5- sosed; end vertical le osed; C-C for member ns shown; Lumber roof LL: Lum DOL=1 f=15.4 psf (Lum DOl Rough Cat B; Partiall	 5) This truss load of 12. overhangs 6) Plates che about its cr 7) This truss chord live labout its cr 7) This truss chord live labout its cr 8) * This truss on the bott 3-06-00 tal chord and 9) Bearing at using ANS designer si 10) Provide me bearing pla 11) One H2.54 recommen UPLIFT at and does r 10 12) This truss load of 250 panels and Bottom Ch 13) This truss structural we chord and the bottom the tat. LOAD CASE(Series 	has been designer opsf or 2.00 times non-concurrent w cked for a plus or enter. has been designer oad nonconcurrent is has been designer om chord in all are to by 2-00-00 wide any other member joint(s) 15 conside //TPI 1 angle to gr hould verify capac cchanical connect te at joint(s) 15. Simpson Strong- ded to connect tru jt(s) 2 and 15. Thi ot consider latera has been designer .01b live and 3.01b at all panel points ord, nonconcurrent design requires thi vood sheathing be 1/2" gypsum shee chord. b) Standard	d for greats s flat roof k ith other lin minus 5 de d for a 10.0 tt with any ed for a liv eas where will fit betw rs. ers parallel ain formula ity of beari ion (by oth Tie connectii forces. d for a mov dead loca s along the tt with any at a minim e applied d trock be ap	er of min rool bad of 15.4 p re loads. egree rotation 0 psf bottom other live loa e load of 20.1 a rectangle recen the bott to grain valu a. Building ng surface. ers) of truss r ctors ng walls due to si for uplif ring concentri ted at all mic Top Chord a other live loa um of 7/16" rectly to the oplied directly	f live sf on ads. Opsf om ie to to to rated and ads. top y to				SEA 0235	ROLIN DA	

4) Unbalanced snow loads have been considered for this design.

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	B1	Roof Special	18	1	Job Reference (optional)	174616770

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Tue Jul 01 17:57:38 ID:PG_85eDjrFYDCiYm7klD4syAUC2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:54.4

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.33	6-7	>442	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.48	6-7	>309	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.00	6-7	>999	240		
BCDL	10.0										Weight: 93 lb	FT = 20%
	2v4 SP No 2		6) This truss t	as been designe	ed for a 10.0) psf bottom	ads					

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP S	S
WEBS	2x4 SP N	0.3 *Except* 7-1:2x4 SP No.2
BRACING		
TOP CHORD	Structural	l wood sheathing directly applied,
	except en	nd verticals.
BOT CHORD	Rigid ceili	ing directly applied.
WEBS	1 Row at	midpt 4-5
REACTIONS	(size)	5=0-3-8, 7=0-3-8
	Max Horiz	7=104 (LC 16)
	Max Uplift	5=-33 (LC 16)
	Max Grav	5=507 (LC 22), 7=499 (LC 42)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-2=-127/	41, 2-3=-287/0, 3-4=-87/68,
	4-5=-277/	/58, 1-7=-317/79
BOT CHORD	6-7=-141/	/338, 5-6=-44/212
WEBS	2-7=-391/	0, 2-6=-206/163, 3-6=-19/427,
	3-5=-507/	/99

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 7-10-4 to 10-10-4, Interior (1) 10-10-4 to 20-1-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 5 degree rotation about its center.

- * This truss has been designed for a live load of 20.0psf 7) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	PB3	Piggyback	30	1	Job Reference (optional)	174616773

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:44 ID:IZEd3GbQCy0F0dUouOXWQByATsv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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3-0-0



Scale - 1:38.8

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2027	I/TPI2014	CSI TC BC WB Matrix-AS	0.22 0.33 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood shea Rigid ceiling directly (size) 1=6-0-0, 2 6=6-0-0 Max Horiz 1=-37 (LC Max Uplift 1=-215 (L 4=-21 (LC 4=449 (LC 6=328 (LC	athing directly applied applied. 2=6-0-0, 4=6-0-0, 5=6 : 12) C 42), 2=-25 (LC 16), : 17), 5=-213 (LC 43) C 40), 2=460 (LC 58), C 56), 5=223 (LC 52), C 59)	4) 5) 5-0-0, 7) 8) 9) 10	TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design. Plates check about its cen Gable requir Gable studs This truss ha chord live loa) * This truss f on the bottor 3-06-00 tall b	7-16; Pr=20.0 ps .15); Pg=20.0 ps DL = 1.15); Is=1.0); Cs=1.00; Ct=1.1 snow loads have ed for a plus or m ter. es continuous bot spaced at 4-0-0 c s been designed ad nonconcurrent nas been designe n chord in all area by 2-00-00 wide w	if (roof LL ; Pf=15.4); Rough 10 been cor inus 5 de tom chor ic. for a 10.0 with any d for a liv as where ill fit betw	: Lum DOL= psf (Lum DC Cat B; Partia sidered for th gree rotation d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto	1.15 DL = Illy his n dds. Dpsf om						
FORCES TOP CHORD BOT CHORD	(lb) - Maximum Com Tension 1-2=-55/150, 2-3=-1 4-5=-38/149 2-6=-80/54, 4-6=-80/	pression/Maximum 57/87, 3-4=-157/85, /54	11	 chord and ar Provide mec bearing plate 2, 21 lb uplift at joint 5, 25 	hanical connectio capable of withs at joint 4, 215 lb lb uplift at joint 2	n (by oth tanding 2 uplift at jo and 21 lb	ers) of truss t 5 lb uplift at j pint 1, 213 lb uplift at joint	io oint uplift : 4.						
WEBS NOTES 1) Unbalanc this design 2) Wind: ASI Vasd=95r II; Exp B; Exterior(2 vertical lef forces & M DOL=1.6(3) Truss des	3-6=-197/2 ed roof live loads have n. CE 7-16; Vult=120mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (en 'E) zone; cantilever left ft and right exposed;C- MWFRS for reactions si 0 plate grip DOL=1.60 igned for wind loads in	been considered for (3-second gust) DL=6.0psf; h=25ft; Ca velope) and C-C and right exposed ; e C for members and hown; Lumber	12 13 at. 9nd 14) This truss ha load of 250.0 panels and a Bottom Chor) This truss de structural wo chord and 1/ the bottom c) See Standar Detail for Co consult quali	s been designed lb live and 3.0lb of t all panel points d, nonconcurrent sign requires that od sheathing be a 2" gypsum sheetr hord. d Industry Piggyb nnection to base fied building desig Standard	for a mov dead loca along the with any a minim applied di ock be ap ack Trus truss as a gner.	ring concentr ted at all mid Top Chord a other live loa um of 7/16" rectly to the to oplied directly as Connection applicable, or	rated and ids. top y to			and the second sec	OFFESS SEA 0235	ROL ION L 94	

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	C1	Common	8	1	Job Reference (optional)	174616776

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Tue Jul 01 17:57:39 ID:TwVXg5aWDH_E61dF3HKfHWz0V5j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.12	8-15	>999	360	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.14	8-15	>999	240			
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	2	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	8-11	>999	240			
BCDL	10.0										Weight: 57 lb	FT = 20%	
LUMBER TOP CHORD	2x4 SP No.2		5) This truss h load of 12.0	as been designe) psf or 2.00 time	ed for greate s flat roof lo	er of min roof bad of 15.4 p	live sf on	·					

TC BOT CHORD 2x4 SP No.2 WFBS 2x4 SP No 3 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0 BRACING TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 2=0-3-0, 6=0-3-0 Max Horiz 2=75 (LC 15) Max Grav 2=540 (LC 2), 6=540 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/45, 2-4=-485/276, 4-6=-485/276, 6-7=0/452-8=-81/333, 6-8=-81/333 BOT CHORD 4-8=-87/347

WFBS

NOTES

1) Unbalanced roof live loads have been considered for this design

Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design

- overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation 6) about its center.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	C1A	Common	2	1	Job Reference (optional)	174616777

Run: 25.20 E May 29 2025 Print: 25.2.0 E May 29 2025 MiTek Industries, Inc. Wed Jul 02 13:41:53 ID:5OkoZFebtjkUKluhpDrlVfz0V1n-seMfUuFaOCCnZsBBAZN31rwSqphzf?PxXi2nZlz050D



Scale = 1:32.8

Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	I/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.73	Vert(LL)	-0.12	6-13	>999	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15		BC	0.84	Vert(CT)	-0.14	6-13	>999	240	-	
TCDI	10.0	Rep Stress Incr	NO		WB	0.13	Horz(CT)	0.08	1	n/a	n/a		
BCLL	0.0*	Code	IRC2021	I/TPI2014	Matrix-AS	0.10	Wind(LL)	0.14	6-9	>999	240		
BCDL	10.0	0000		.,				0	00		2.0	Weight: 53 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3		4) 5)	Unbalanced design. Plates check about its cen	snow loads have ed for a plus or m ter.	been cor ninus 5 de	nsidered for t egree rotation	this n					
SLIDER	Left 2x6 SP No.2 1 1-6-0	-6-0, Right 2x6 SP	No.2 6)	This truss ha	s been designed ad nonconcurrent	for a 10.0 with any) psf bottom other live loa	ads.					
BRACING TOP CHORD BOT CHORD REACTIONS	Structural wood shee Rigid ceiling directly (lb/size) 1=425/0-3 Max Horiz 1=64 (LC Max Uplift 1=-474 (Li Max Grav 1=779 (LC	athing directly applie applied. I-0, 5=425/0-3-0 47) C 47), 5=-474 (LC 4 C 38), 5=779 (LC 39	7) ed. 8) 6) 9)	 chord live load nonconcurrent with any other live loads. 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi. 9) Provide mechanical connection (by others) of truss to bearing plate at ionit(c) 1.5. 									
FORCES	(lb) - Maximum Com Tension	pression/Maximum	10) Provide mec bearing plate	hanical connectio	on (by oth tanding 4	ers) of truss 74 lb uplift a	to It ioint					
TOP CHORD	1-2=-394/363, 2-15= 15-16=-775/691, 3-1 3-17=-632/578, 17-1 4-18=-919/823, 4-5=	-919/820, 6=-632/575, 8=-775/694, -361/363	11	1 and 474 lb) This truss ha load of 250.0 panels and a	uplift at joint 5. Is been designed Ib live and 3.0lb d It all panel points	for a mov dead loca	ving concent ted at all mic	rated d					
BOT CHORD	1-19=-679/756, 6-19 6-20=-387/501, 5-20	=-387/501, =-679/756	12	Bottom Chor) This truss ha	d, nonconcurrent	with any for a tota	other live load o	ads. of 100					
WEBS	3-6=-87/349			plf. Lumber [DOL=(1.33) Plate	grip DOL	=(1.33) Cor	nnect					
NOTES				truss to resis	t drag loads along	g bottom	chord from 0	0-0-0					1111
1) Unbalance this design	ed roof live loads have	been considered for	r 13	to 12-0-0 for) This truss de structural wo	100.0 plf. sign requires that od sheathing be a	t a minim applied di	um of 7/16" rectly to the	top			A.	ORTH CA	ROLIN

- Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- chord and 1/2" gypsum sheetrock be applied directly to the bottom chord. LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	V2	Valley	6	1	Job Reference (optional)	174616778

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:45 ID:kU9J?YsnvMIGSDB8qqNnKIzjY8B-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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S

Scale = 1:29.4													
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.02	3	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS									
BCDL	10.0										Weight: 30 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP SS 2x4 SP SS 2x4 SP No.3		 Gable required Gable stud This truss I chord live I 	ires continuous b s spaced at 4-0-0 nas been designe oad nonconcurren	oottom chor) oc. ed for a 10.0 nt with any	d bearing.) psf bottom other live loa	ıds.						

- BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 1=7-9-6, 3=7-9-6 Max Horiz 1=93 (LC 16) Max Uplift 3=-18 (LC 16)
- Max Grav 1=406 (LC 42), 3=406 (LC 41) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-656/105, 2-3=-331/103 BOT CHORD 1-3=-115/561

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-7-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.

- 10) * This truss has been designed for a live load of 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	V1	Valley	6	1	Job Reference (optional)	174616779

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:44 ID:R8EgX9mOYDsF689owsl8YGzjY8I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:22.9

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) \$ 20.0 F 15.4/20.0 L 10.0 F 0.0* (10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-AS	0.59 0.65 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheath except end verticals. Rigid ceiling directly ap (size) 1=4-11-1, 3= Max Horiz 1=57 (LC 16 Max Uplift 3=-10 (LC 1)	hing directly applied oplied. =4-11-1 3) 6)	 7) Gable requir 8) Gable studs 9) This truss ha chord live loa 10) * This truss f on the bottor 3-06-00 tail t chord and ar 11) Provide mec bearing plate 3. 12) Beveled plate 	es continuous b spaced at 4-0-0 is been designe ad nonconcurrer has been designe no chord in all ar by 2-00-00 wide hanical connect e capable of with e or shim requir	ottom chor) oc. d for a 10.(nt with any ned for a liv eas where will fit betw vrs. cion (by oth nstanding 1 ved to provi	d bearing.) psf bottom other live loa e load of 20.0 a rectangle veen the botto ers) of truss t 0 lb uplift at jude full bearing	ds. Dpsf om oint g						

Max Grav 1=349 (LC 42), 3=349 (LC 41) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-518/82, 2-3=-300/69 1-3=-95/446

BOT CHORD

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-9-5 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.

- surface with truss chord at joint(s) 1. 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and
- Bottom Chord, nonconcurrent with any other live loads. 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	P2	Monopitch	18	1	Job Reference (optional)	174616780

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:Cr?6CZ3mKAIMt_EaTcuVx0zNYZI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:38.6

Plate Offsets (X, Y): [2:0-4-5,0-0-5], [5:0-3-8, Edge]

Loading TCLL (roof) Snow (Pf/Pg) TCDL 3CLL 3CDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.64 0.86 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.21 0.03 0.06	(loc) 5-11 5-11 2 5-11	l/defl >622 >453 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 35 lb	GRIP 244/190 186/179 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS SLIDER BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95n II; Exp B; Exterior(2 zone; can exposed; and forces DOL=1.6C 3) TCLL: AS Plate DOL 1.15 Plate Exp.; Ce=	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 1 Structural wood shee except end verticals. Rigid ceiling directly (size) 2=0-3-0, 1 Max Horiz 2=65 (LC Max Grav 2=449 (LC (lb) - Maximum Com Tension 1-2=0/26, 2-4=-391/ 4-6=-154/321 2-5=-154/201 4-13=-376/43 ed roof live loads have n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en E) -1-0-0 to 2-0-0, Inter tilever left and right exp s & MWFRS for reactio 0 plate grip DOL=1.60 CE 7-16; Pr=20.0 psf (_=1.15); Pg=20.0 psf (_=0.15); IS=1.0; F 1.0; Cs=1.00; Ct=1.10	I-6-0 athing directly applied applied. 3=0-1-8 12), 13=-53 (LC 12) 2 40), 13=373 (LC 43 pression/Maximum 166, 5-6=-65/330, been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C ior (1) 2-0-0 to 7-5-4 posed; end vertical le osed;C-C for member ns shown; Lumber roof LL: Lum DOL=1. I ^f =15.4 psf (Lum DOI Rough Cat B; Partially	5) 6) 7) 8) 9) 10) 11) 12) 13) at. 14) off c =	This truss ha load of 12.0 j overhangs nd All plates are Plates check about its cen This truss ha chord live loa * This truss ha on the bottom and ar Bearing at jo using ANSI/T designer sho Provide mecl bearing plate One H2.5A S recommende Dealing plate One H2.5A S recommende Dealing plate One H2.5A S recommende Bottom Chor This truss ha load of 250.0 panels and a Bottom Chor This truss de structural wo chord and 1/2 the bottom ch	s been designed f bef or 2.00 times fl on-concurrent with MT20 plates unle ed for a plus or mi ter. s been designed f ad nonconcurrent to as been designed n chord in all area: y 2-00-00 wide wi y 2-00-00 wi y 2-00-00 wide wi y 2	or greate lat roof lo other livess other inus 5 de for a 10.0 with any for a livess where ll fit betw s parallel n formula of bearing of bearing of bearing of bearing to bear connects. For a move ead loca along the with any parallel s to bear connects.	er of min roof pad of 15.4 p. ve loads. wise indicate ggree rotation 0 psf bottom other live load e load of 20.0 a rectangle veen the bottot to grain valu a. Building ng surface. ers) of truss t ctors ng walls due pon is for uplift Top Chord a other live load um of 7/16" rectly to the to pplied directly	live sf on d.				SEA 0235	ROLL L 94	any manual and

- Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 7zone; cantilever left and right exposed ; end vertical left exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	PB1	Piggyback	27	1	Job Reference (optional)	174616781

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:1g_pehrTMPIq7LuwuRQV2cyATvA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.4

Plate Offsets (X, Y): [2:0-0-9,Edge], [6:0-0-9,Edge]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI201	CSI TC BC WB Matrix-AS	0.47 0.79 0.14	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 74 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood shear Rigid ceiling directly (size) 1=19-3-0, 7=19-3-0, 10=19-3-0 Max Horiz 1=-87 (LC Max Uplift 1=-396 (L) 7=-393 (L) 10=-27 (L) Max Grav 1=141 (LC 6=661 (LC 8=449 (LC 10=449 (L) (lb) - Maximum Com Tension 1-2=-92/227, 2-3=-1: 4-5=-131/86, 5-6=-1	athing directly applied applied. 2=19-3-0, 6=19-3-0, 8=19-3-0, 9=19-3-0, 12) C 42), 2=-6 (LC 16), C 45), 8=-27 (LC 17), C 16) C 40), 2=674 (LC 42), C 45), 7=144 (LC 56), C 30) pression/Maximum 27/221, 3-4=-131/90, 14/219, 6-7=-13/210 -7/26 6-8=-219/54	 Truss c only. F see State or cons TCLL: / Plate D T.15 Pl Exp.; C Unbala design. Plates c about it Gable s Gable s This tru chord li * This tru chord li * This tru chord a Provide bearing 1 and 3 N/A 	esigned for wind load: or studs exposed to w ndard Industry Gable ult qualified building d SCE 7-16; Pr=20.0 p OL=1.15; Pg=20.0 ps ate DOL = 1.15; Is=1. eet DCL = 1.15; Is=1. hered snow loads have checked for a plus or r s center. equires continuous bc tuds spaced at 4-0-0 ss has been designed ve load nonconcurren uss has been designed bottom chord in all are tall by 2-00-00 wide v nd any other member mechanical connecting plate capable of with: 93 lb uplift at joint 7.	is in the playind (norm End Detai lesigner as ssf (roof LL sf; Pf=15.4. 0; Rough .10 e been cor minus 5 de bottom chor oc. d for a 10.0 t with any ed for a liv eas where will fit betw s, with BC on (by oth standing 3	ane of the trus ane of the trus al to the face) Is as applicat per ANSI/TP : Lum DOL=1 psf (Lum DO Cat B; Partial isidered for th egree rotation d bearing.) psf bottom other live load e load of 20.0 a rectangle veen the botto DL = 10.0psf. ers) of truss to 96 lb uplift at	ds. point ds. point ds. point point	LOAD	CASE(S)) Star	ndard	ROL	
WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95n 11; Exp B; Exterior(2 Exterior(2 18-11-8 z vertical lef forces & M DOL=1.60	4-9=-268/0, 3-10=-3 ed roof live loads have n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en E) 0-3-8 to 3-3-8, Interi R) 9-7-8 to 12-7-8, Inter one; cantilever left and ft and right exposed;C- MWFRS for reactions sl 0 plate grip DOL=1.60	46/101, 5-8=-346/101 been considered for (3-second gust) DL=6.0psf; h=25ft; C: velope) and C-C ior (1) 3-3-8 to 9-7-8, rior (1) 12-7-8 to right exposed ; end C for members and hown; Lumber	 13) This tru load of panels at. Bottom 14) This tru structur chord a the bott 15) See Sta Detail f consult 	ss has been designed 250.0lb live and 3.0lb and at all panel points Chord, nonconcurren ss design requires tha al wood sheathing be nd 1/2" gypsum sheet om chord. Indard Industry Piggyl or Connection to base qualified building desi	d for a mov dead loca a along the t with any applied di trock be ap back Truss e truss as a igner.	ring concentra ted at all mid Top Chord a un of 7/16" rectly to the to splied directly s Connection spplicable, or	ated nd ds. op to		1. The second se		SEA 0235		A A A A A A A A A A A A A A A A A A A

July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	VG4	Valley	3	1	Job Reference (optional)	174616783

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:45 ID:VZiBpvM70G1IUg0DHf7d1bzjY7X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.5

Loading (TCLL (roof) : Snow (Pf/Pg) 15.4/; TCDL BCLL BCDL	Spacing20.0Plate Grip DOL20.0Lumber DOL10.0Rep Stress Incr0.0*Code	2-0-0 1.15 1.15 YES IRC2021/TPI201	CSI TC BC WB Matrix-AS	0.50 0.54 0.22	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 79 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wo except end vi BOT CHORD Rigid ceiling a REACTIONS (size) 1= 9= 11 Max Horiz 1= Max Uplift 7= (LC (LC Max Grav 1= 8	od sheathing directly applied, erticals. directly applied. 13-5-15, 7=13-5-15, 8=13-5-1 13-5-15, 10=13-5-15, =13-5-15 166 (LC 16) -5 (LC 16), 8=-9 (LC 16), 9=-1 C 16), 10=-156 (LC 53), 11=-1 C 16) 342 (LC 46), 7=283 (LC 63), 334 (LC 62), 9=351 (LC 61), =254 (LC 60), 11=547 (LC 53)	 Truss c only. F see Sta or cons TCLL: / Plate D TCLL: / Plate D TCLS: / Plate S Unbala O Plates (about it O Able r Gable r Gable r Gable r Gable r This tru chord li This tru This tru on the I 3-06-00 chord a 	asigned for wind load or studs exposed to indard Industry Gable lif qualified building SCE 7-16; Pr=20.0 DL=1.15); Pg=20.0 pt te DDL = 1.15); Ig= =1.0; Cs=1.00; Ct= icced snow loads have hecked for a plus or a center. equires continuous b tuds spaced at 2-0-0 ss has been designe re load nonconcurre us has been designe to a bas been designe to bas bas been designe to bas bas been designe tall by 2-00-00 wide d any other membe	Is in the pl wind (norm End Deta designer a: psf (roof Ll ssf; Pf=15.4 1.0; Rough 1.10 e been cor minus 5 du ottom chor oc. d for a 10. t with any we for a liv eas where will fit betv rs.	ane of the tru ial to the face ils as applica s per ANSI/TI .: Lum DOL= 4 psf (Lum DC Cat B; Partia nsidered for th egree rotation d bearing. 0 psf bottom other live loa re load of 20.1 a rectangle veen the bottom	ss), ble, Pl 1. 1.15 DL = Illy nis ds. Dpsf					
FORCES (lb) - Maximu Tension TOP CHORD 1-2=-487/167	m Compression/Maximum	11) Provide bearing 9 lb upl	mechanical connect plate capable of with ft at joint 8, 11 lb upl	ion (by oth Instanding 5 ift at joint 9	ers) of truss t 5 lb uplift at jo 9, 156 lb uplift	o int 7, at					110.
BOT CHORD 1-11=-61/419 7-8=0/2	0, 10-11=0/2, 9-10=0/2, 8-9=0/	joint 10 ^{(2,} 12) Beveleo surface	and 16 lb uplift at joi plate or shim requir with truss chord at id	nt 11. ed to provi pint(s) 1.	de full bearin	g			A.L.	HTH CA	ROU
WEBS 5-8=-278/57, 2-11=-365/11 NOTES	4-9=-287/61, 3-10=-246/103, 0	13) This tru load of panels	ss has been designe 250.0lb live and 3.0ll and at all panel point	d for a mo dead loca s along the	ving concentr ated at all mid Top Chord a	ated		1		A OF	No the second

- this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 13-4-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	PB4	Piggyback	3	1	Job Reference (optional)	174616785

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:44 ID:HwY2zdSAtAl2X8UgV?zyksz0UM7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.1

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202 4)	1/TPI2014 TCLL: ASCE	CSI TC BC WB Matrix-AS 7-16; Pr=20.0 ps	0.46 0.85 0.07 f (roof LL	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a 0.00 1.15	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 34 lb	GRIP 244/190 FT = 20%
TOP CHORD BOT CHORD WEBS OTHERS BRACING	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3		5)	Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design.	.15); Pg=20.0 psf OL = 1.15); Is=1.0); Cs=1.00; Ct=1.1 snow loads have I	; Pf=15.4 ; Rough 0 been cor	Posf (Lum DC) Cat B; Partial	DL = Ily nis					
TOP CHORD BOT CHORD REACTIONS	Structural wood she except end verticals Rigid ceiling directly (size) 2=7-5-10, 7=7-5-10 Max Horiz 2=98 (LC Max Uplift 5=-8 (LC Max Grav 2=315 (LC 6=435 (LC	eathing directly applie , , applied. , 5=7-5-10, 6=7-5-10 16) 16), 6=-25 (LC 16) C 47), 5=313 (LC 53) C 52)	d, 6) 7) 8) 9) 10	This truss ha load of 12.0 overhangs n Plates check about its cen Gable requir Gable studs)) This truss ha chord live loa	s been designed f psf or 2.00 times f on-concurrent with ed for a plus or m ter. es continuous bott spaced at 4-0-0 of s been designed f ad nonconcurrent	for great lat roof lo o other liv inus 5 do com chor c. for a 10.0 with any	er of min roof bad of 15.4 ps ve loads. egree rotation d bearing. 0 psf bottom other live loa o load of 20.0	live sf on ds.					
FORCES	(lb) - Maximum Com Tension 1-2=0/22, 2-3=-127/	npression/Maximum /93, 3-4=-101/62, 5-7	=0/0,	on the bottor 3-06-00 tall b chord and ar	n chord in all area by 2-00-00 wide winy other members.	s where Ill fit betv	a rectangle veen the botto	om					
BOT CHORD WEBS	4-5=-283/44 2-6=-22/78, 5-6=0/0 3-6=-343/126	1	12	 Bearing at jo using ANSI/1 designer sho 	int(s) 7, 5 conside PI 1 angle to grai uld verify capacity	rs parall n formul of bear	el to grain val a. Building ing surface.	ue					
NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=95r II: Exp B:	ed roof live loads have n. CE 7-16; Vult=120mph mph; TCDL=6.0psf; BC Enclosed: MW/EPS (ar	13 Cat. 14	 N/A This truss ha load of 250.0 	s been designed f	or a mo	ving concentra	ated				NITH CA	ROL	

- Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 8-2-1 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 16) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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A MITek Affilia 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type		Ply	Cooper III Rev.4-Elev - 7-Roof					
2411-0320-I	G2B	Attic	8	1	Job Reference (optional)	1/4616786				

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:41 ID:foZxhosD1jn7f?91A0wgJqyATsZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:92.1

Plate Offsets (X, Y): [4:0-3-4,0-2-0], [5:0-3-4,0-2-0], [13:0-3-8,0-3-0], [16:0-3-8,0-3-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.80 0.83 0.80	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.37 -0.65 0.06 -0.12	(loc) 14 14 9 10-11	l/defl >643 >366 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 184 II	GRIP 244/19 186/17 p FT = 2	10 '9 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP SS 2x4 SP No.3 *Excep No.2, 15-14:2x6 SP I Structural wood shea except end verticals, (5.4.6 max): 4.5	t* 2-19,7-10,3-6:2x4 No.2 athing directly applied , and 2-0-0 oc purlins	2) SP d,	Wind: ASCE Vasd=95mph II; Exp B; End Exterior(2E) 12-11-6, Exte 17-2-4 to 19- exposed ; en and forces &	7-16; Vult=120mp ;; TCDL=6.0psf; B closed; MWFRS (¢ 0-1-12 to 3-4-4, Int 7-0-10 to 11-3-9, I rrior(2R) 12-11-6 tr 10-4 zone; cantilev d vertical right exp MWFRS for reacti	h (3-sec CDL=6.0 envelope terior (1) nterior (o 17-2-4 ver left a losed;C- tions sho	cond gust) Dpsf; h=25ft; (a) and C-C a) 3-4-4 to 7-0- 1) 11-3-9 to b, Interior (1) and right C for membe wn; Lumber	Cat. -10, ers	 13) This structs cho the 14) Gra or the bott 15) Attic 	s truss d ctural w rd and 1 bottom o phical p ne orient om chor c room c CASE(S)	esign i ood sh /2" gyj chord. urlin re tation o rd. checke	requires that a r leathing be app pourn sheetrock presentation do of the purlin alo d for L/360 defl ndard	ninimum o lied directl be applied bes not de ng the top ection.	f 7/16" y to the top d directly to pict the size and/or
BOT CHORD WEBS REACTIONS	(5-4-6 max.): 4-5. Rigid ceiling directly 1 Row at midpt (size) 9=0-3-8, 2 Max Horiz 20=196 (L Max Gray, 0=1626 (I	applied. 3-6, 1-20, 8-9, 10-13 16-19 20=0-3-8 .C 15) .C 51, 20=1626 (LC	, 3) 51) ⁴⁾	DOL=1.60 pla TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced	ate grip DOL=1.60 7-16; Pr=20.0 psf .15); Pg=20.0 psf; DL = 1.15); Is=1.0; ; Cs=1.00; Ct=1.10 snow loads have b	(roof LL Pf=20.4 Rough 0, Lu=50 peen cor	L: Lum DOL= psf (Lum DC Cat B; Partial)-0-0 hsidered for th	1.15 DL = Ily nis	LUAD	JA3E(3)	J	nuaru		
FORCES	(lb) - Maximum Com Tension 1-2=-854/0, 2-3=-78: 4-5=-584/132, 5-6=-(pression/Maximum 7/94, 3-4=-658/112, 658/108, 6-7=-831/17	5) 6) 7) 72,	design. Provide adeq All plates are Plates check about its cen	uate drainage to prevent water ponding. MT20 plates unless otherwise indicated. ed for a plus or minus 5 degree rotation ter.									
BOT CHORD	7-8=-872/0, 1-20=-10 19-20=-193/198, 17- 11-17=0/3708, 10-11 16-18=-166/281, 14- 13-14=-3221/0, 12-1	 54/0, 2-3=-787/94, 3-4=-658/112, 84/132, 5-6=-658/108, 6-7=-831/172, 72/0, 1-20=-1658/0, 8-9=-1646/0 e-193/198, 17-19=0/3708, e-0/3708, 10-11=0/3708, 9-10=-75/89, e-166/281, 14-16=-3221/0, e-362/10, 12-13=-167/262 about its center. This truss has been designed for a low of a l									July 1	WITH C	ARO	in and
WEBS NOTES 1) Unbalance this design	18-19=-403/86, 18-2 2-23=-256/265, 10-1 12-25=-361/245, 7-2 21-22=-586/154, 22- 6-26=-699/240, 1-19 14-15=-130/111, 4-2 16-17=0/247, 11-13= 16-19=-3412/0, 23-2 25-26=-206/220	 ar-361/245, ar-403/98, ar-256/265, ar-588/154, color land by 200-00 tail by 200-0								1 Comments		SE/ 023!	AL 594	A MARINA MARINA

NOTES

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A4A	Piggyback Base	1	1	Job Reference (optional)	174616787

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Tue Jul 01 17:57:38 ID:X6fz5k6uCWTc9dlojlyCKbyAQcN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:83.4

2)

3)

grip DOL=1.60

Exterior(2E) -1-0-0 to 2-4-14, Interior (1) 2-4-14 to 15-7-11, Exterior(2R) 15-7-11 to 20-5-8, Interior (1)

20-5-8 to 24-1-4 zone; cantilever left and right exposed ;

end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

 $\label{eq:plate_delta} \begin{array}{l} \mbox{Plate_DOL=1.15}; \mbox{Pg=20.0 psf}; \mbox{Pf=20.4 psf} (\mbox{Lum_DOL} = 1.15 \mbox{Plate_DOL} = 1.15); \mbox{Is=1.0}; \mbox{Rough Cat B}; \mbox{Partially} \end{array}$

Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

Plate Offsets (X, Y): [2:0-5-8,0-1-8], [3:0-4-0,0-3-4], [4:0-4-0,0-1-11], [8:0-2-12,Edge]

Loading	(psf)	Spacing	2-0-0		CSI	0.00	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15			0.93	Vert(LL)	-0.27	7-8	>999	360	M18AHS	186/179
Snow (Pf/Pg) 20.4/20.0	Lumber DOL	1.15		BC	0.56	Vert(CT)	-0.36	7-8	>786	240	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES		WB	0.50	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC202	1/TPI2014	Matrix-AS		Wind(LL)	0.02	8-9	>999	240		
BCDL	10.0											Weight: 190 lb	FT = 20%
LUMBER TOP CHORI BOT CHORI WEBS BRACING TOP CHORI	 2x4 SP No.2 *Except 2x4 SP SS 2x4 SP No.3 *Except Structural wood shear except end verticals, (6-0-0 max.): 4-6. 	* 4-6:2x6 SP No.2 * 10-2:2x6 SP No.2 athing directly applie and 2-0-0 oc purlins	4) 5) d, 6) s 7) 8)	Unbalanced design. This truss ha load of 12.0 overhangs n Provide adec All plates are Plates check about its cen	snow loads have t s been designed f osf or 2.00 times fl on-concurrent with quate drainage to p MT20 plates unle ed for a plus or mi ter.	or greate or greate lat roof lo o other liv orevent v ess other inus 5 de	nsidered for t er of min roof oad of 15.4 p ve loads. water pondin wise indicate egree rotation	his f live osf on g. ed. n					
BOT CHORI WEBS	2 Rigid ceiling directly 1 Row at midpt	applied. 6-7. 3-8. 4-8. 5-7	9)	This truss ha	s been designed f	or a 10.0) psf bottom						
REACTION	6 (size) 7=0-3-8, 1 Max Horiz 10=203 (L Max Grav 7=1117 (L	0=0-3-8 C 16) C 42), 10=1210 (LC	10 45)	chord live loa) * This truss h on the bottor 3-06-00 tall b	ad nonconcurrent v has been designed n chord in all areas by 2-00-00 wide wi	with any I for a liv s where II fit betw	other live loa e load of 20.0 a rectangle veen the bott	ads. Opsf tom					
FORCES	(lb) - Maximum Com	pression/Maximum		chord and ar	y other members,	with BC	DL = 10.0ps	if.					
TOP CHORI	D 1-2=0/51, 2-4=-1572, 5-6=-33/0, 6-7=-300/	/0, 4-5=-685/27, 26, 2-10=-1083/0	11	load of 250.0 panels and a	is been designed f Ib live and 3.0lb d t all panel points a	or a move ead location	ted at all mic	rated d and					
BOT CHOR	D 9-10=-201/481, 7-9=	-61/1348		Bottom Chor	d, nonconcurrent v	with any	other live loa	ads.					
WEBS	3-9=0/340, 3-8=-780, 2-9=0/933, 5-7=-867,	/67, 4-8=-130/139, /47, 5-8=-31/854	12) This truss de structural wo	sign requires that od sheathing be a	a minim pplied di	um of 7/16" rectly to the	top					
NOTES				chord and 1/	2" gypsum sheetro	ock be ap	oplied directly	y to				mmm	1111.
1) Unbalan	ced roof live loads have	been considered for		the bottom cl	hord.							WH CA	Pall
this desi	gn.		13) Graphical pu	rlin representation	does no	ot depict the	size				all on	

Graphical purlin representation does not depict the size Wind: ASCE 7-16; Vult=120mph (3-second gust) or the orientation of the purlin along the top and/or Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. bottom chord. II; Exp B; Enclosed; MWFRS (envelope) and C-C

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	G2	Attic	1	1	Job Reference (optional)	174616788

13-0-0

6-0-0

5 3334<u>5 356</u>3637 6

7-0-0

1-1-9 4x6=

3x4 🖌

10¹⁻ 32 2x4 || 4

-1-0-0 -1-0-0 -1-0-0 -1-0-0 -1-0-0 -1-0-0 -1-0-0 -1-0-0 -1-0-0 -1-0-7

1012

16-7-12 14-1-9

1-1-9 2-6-3

3x4、

38 Ŗ ġ

ò

2x4 II

+ +

4x6=

Structural, LLC, Thurmont, MD - 21788.

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:40 ID:XXZ?22VbBuVQg4ZVskfK2Oy3nLJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2 21-0-0

3-4-4 1-0-0

Page: 1



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3⁴ 26 23 39 6 24 28 8 ^{3x6} ≠ 30 40 2x4 II 2x4 🥠 29 41 3x6💊 2x4. 2x4 II 11-8-0 q 2 2 10 5-10-0 **T**O | 22 11 21 **4**3 20 48 42 19 44 17 45 13 18 49 16 50 15 46 51 12 14 47 2x4 II 2x4 II 6x12= 6x8=M18AHS 6x12 = 2x4= 2x4= 2x4 II 2x4 II 2x4 🛛 6x12= 6x8= 20-0-0

Scale = 1:104.1

Plate Offsets (X, Y): [5:0-3-4,0-2-0], [6:0-3-4,0-2-0], [15:0-3-8,0-3-0], [18:0-3-8,0-3-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-AS	0.80 0.83 0.80	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.37 -0.64 0.06 -0.13	(loc) 16 16 11 19-21	l/defl >643 >367 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 187 lb	GRIP 244/190 186/179 FT = 20%		
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP SS 2x4 SP No.3 *Except No.2, 17-16:2x6 SP N	t* 3-21,8-12,4-7:2x4 \$ No.2	1) 2) SP	Unbalanced i this design. Wind: ASCE Vasd=95mph II; Exp B; End Exterior(2E) -	roof live loads have 7-16; Vult=120mp ; TCDL=6.0psf; B0 closed; MWFRS (e 1-0-0 to 2-0-0. Int	e been o h (3-sec CDL=6.0 envelope erior (1)	considered fo cond gust) Dpsf; h=25ft; (e) and C-C 2-0-0 to 7-0-	r Cat. 10.	13) This load pan Bott 14) This stru	truss h of 250. els and om Cho truss d ctural w	as bee Olb live at all p rd, nor esign r ood sh	en designed for a e and 3.0lb dead anel points along nooncurrent with requires that a m eathing be appli	moving conc located at all g the Top Cho any other live inimum of 7/ ⁻ ed directly to	entrated mid ord and loads. 16" the top	
TOP CHORD	Structural wood sheat except end verticals, (5-4-1 max.): 5-6.	athing directly applied and 2-0-0 oc purlins	d,	Exterior(2R) 12-11-6, Exte 17-2-4 to 21-	7-0-10 to 11-3-9, li erior(2R) 12-11-6 to 0-0 zone; cantileve	nterior (o 17-2-4 er left ar	1) 11-3-9 to , Interior (1) nd right expos	choi the 15) Gra	rd and 1 bottom o phical p	/2" gyr chord. urlin re	presentation doe	pe applied dir	ectly to		
BOT CHORD WEBS	Rigid ceiling directly 1 Row at midpt	applied. 4-7, 2-22, 9-11, 12-1 18-21	5,	end vertical le forces & MW DOL=1.60 pla TCLL: ASCE	eft and right expos FRS for reactions ate grip DOL=1.60 7-16: Pr=20.0 psf	ed;C-C shown; (roof LL	for members Lumber · Lum DOL =:	and 1 15	or th bott 16) Attic	om chor chor croom c	tation o d. hecke	of the purlin alon d for L/360 defle	g the top and ction.	′or	
REACTIONS	(size) 11=0-3-8, Max Horiz 22=238 (L Max Grav 11=1716 (22=0-3-8 C 15) LC 48), 22=1716 (LC	2 48)	Plate DOL=1 1.15 Plate DOL Exp.; Ce=1.0	.15); Pg=20.0 psf; DL = 1.15); Is=1.0; ; Cs=1.00; Ct=1.10	Pf=20.4 Rough 0, Lu=50	psf (Lum DC Cat B; Partia)-0-0	DL = Ily	LUAD C	A3E(3)	J Sta	luaru			
FORCES	(lb) - Maximum Comp Tension	pression/Maximum	4)	Unbalanced s design.	snow loads have b	have been considered for this									
TOP CHORD	1-2=0/72, 2-3=-874/0 4-5=-659/103, 5-6=-5 7-8=-834/205, 8-9=-8), 3-4=-832/202, 587/114, 6-7=-659/10 373/0, 9-10=0/72,	5))7,	This truss has load of 12.0 p overhangs no	s been designed fo osf or 2.00 times fla on-concurrent with	or greate at roof lo other liv	er of min roof oad of 15.4 p: /e loads.	live sf on							
BOT CHORD	2-22=-1746/0, 9-11=- 21-22=-222/240, 19-2 13-19=0/3704, 12-13 18-20=-189/299, 16-	 32=34/205, 8-3=-87/3/0, 9-10=0/72, overhangs non-concurrent with other live loads. 22=-1746/0, 9-11=-1747/0 Provide adequate drainage to prevent water ponding 1-22=-222/240, 19-21=0/3704, 12-13=0/3704, 12-13=0/3704, 11-12=-73/88, 3-20=-189/299, 16-18=-3219/0, Plates checked for a plus or minus 5 degree rotation about its center. 									111	WITH CA	ROLA	1	
WEBS	15-16=-3219/0, 14-1 20-21=-394/111, 20- 3-25=-243/270, 12-1 14-27=-353/249, 8-2 4-26=-692/245, 23-2 23-24=-573/158, 24- 7-28=-691/245, 2-21:	5=-19//305 25=-353/249, 4=-394/60, 7=-243/270, 6=-577/158, 28=-574/158, =0/1173, 9-12=0/117	9) 10) (⁴ , 11)	This truss has chord live loa) * This truss h on the bottom 3-06-00 tall b chord and an) Ceiling dead		1 Cumun	Ø	SEA 0235	L 94	10 million					
NOTES	16-17=-130/111, 5-2 18-19=0/247, 13-15= 18-21=-3412/0, 25-2 27-28=-251/241	7=-130/111, 5-23=-83/117, 6-24=-83/117, 9=0/247, 13-15=0/247, 12-15=-3412/0, 12=-3412/0, 25-26=-249/238, 23-26, 23-24, 24-28, 7-28; Wall dead load (5.0psf) on member(s).20-25, 3-25, 14-27, 8-27 12=-3412/0, 25-26=-249/238, 18=-251/241 12=-3412/0, 18=-251/241 12=-3412/0, 18=-251/241									anna anna anna anna anna anna anna ann	NY R	EER.ER MILLER		

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	G2A	Attic	1	1	Job Reference (optional)	174616789

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:41 ID:XXZ?22VbBuVQg4ZVskfK2Oy3nLJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:104.1

Plate Offsets (X, Y): [5:0-3-4,0-2-0], [6:0-3-4,0-2-0], [14:0-3-8,0-3-0], [17:0-3-8,0-3-0]

															-			
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	teing 2-0-0 CSI DEFL in te Grip DOL 1.15 TC 0.80 Vert(LL) -0.37 nber DOL 1.15 BC 0.83 Vert(CT) -0.64 o Stress Incr YES WB 0.80 Horz(CT) 0.06 de IRC2021/TPI2014 Matrix-AS 1) Unbalanced roof live loads have been considered for 1;									PLATES MT20 M18AHS Weight: 185 I	GRIP 244/190 186/179 85 lb FT = 20%					
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP SS 2x4 SP No.3 *Excep No.2, 16-15:2x6 SP Structural wood shea except end verticals,	t* 3-20,8-11,4-7:2x4 No.2 athing directly applied , and 2-0-0 oc purlins	1) 2) SP	Unbalanced i this design. Wind: ASCE Vasd=95mph II; Exp B; Enc Exterior(2E) 12-11-6, Exter 17-2-4 to 19-	roof live loads have 7-16; Vult=120mph ; TCDL=6.0psf; BC closed; MWFRS (er 1-0-0 to 2-0-0, Inte 7-0-10 to 11-3-9, Ir prior(2R) 12-11-6 to 10-4 zone: cantilev	e been of 0 (3-sec DL=6.0 nvelope erior (1) aterior (0 17-2-4 er left a	considered for cond gust) Dpsf; h=25ft; (2) and C-C 2-0-0 to 7-0-7 1) 11-3-9 to 4, Interior (1) and right	r Cat. 10,	13) This loac pan Bott 14) This stru cho the 15) Gra	s truss h l of 250. els and com Cho s truss d ctural w rd and 1 bottom o phical p	as bee Olb live at all p rd, nor esign r cod sh /2" gyp chord. urlin re	en designed for e and 3.0lb dea anal points alo nconcurrent wil requires that a leathing be app osum sheetroc	a moving d located ng the Top h any othe minimum (blied direct c be applie oes not de	concentrated at all mid o Chord and er live loads. of 7/16" ly to the top ad directly to epict the size				
BOT CHORD WEBS	(5-4-1 max.): 5-6. Rigid ceiling directly 1 Row at midpt	applied. 4-7, 2-21, 9-10, 11-14 17-20	4,	exposed ; en members and Lumber DOL	d vertical left and ri d forces & MWFRS =1.60 plate grip DC	ght exp for rea DL=1.60	osed;C-C for ctions shown	or th bott 16) Attic	om chor c room c	ation o d. hecke	of the purlin alo	ng the top	and/or					
REACTIONS	(size) 10=0-3-8, Max Horiz 21=233 (L Max Grav 10=1623 (21=0-3-8 _C 13) (LC 48), 21=1719 (LC	3) C 48)	TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp : Ce=1 0	7-16; Pr=20.0 psf; .15); Pg=20.0 psf; DL = 1.15); Is=1.0; : Cs=1 00: Ct=1 10	(roof LL Pf=20.4 Rough) Lu=5(.: Lum DOL=1 psf (Lum DC Cat B; Partial)-0-0	1.15)L = Ily	LOAD CASE(S) Standard									
FORCES	(lb) - Maximum Com	pression/Maximum	4)	Unbalanced s	snow loads have be	een cor	sidered for th	nis										
TOP CHORD	1-2=0/72, 2-3=-877/0 4-5=-658/107, 5-6=-5 7-8=-845/189, 8-9=-5 9-10=-1659/0	iax 010-1020 (E0 40), 21-1110 (E0 40) Exp.; Ce=1.0; Cs=1.00; Ct=1.10, L (lb) - Maximum Compression/Maximum 4 Tension 4 1-2=0/72, 2-3=-877/0, 3-4=-824/218, 5 4-5=-658/107, 5-6=-585/116, 6-7=-659/107, 7-8=-845/189, 8-9=-867/0, 2-21=-1748/0, 0 10, 15500 2-21=-1748/0,																
BOT CHORD	20-21=-241/222, 18- 12-18=0/3706, 11-12 17-19=-182/300, 15- 14-15=-3220/0, 13-1	-20=0/3706, 2=0/3706, 10-11=-75/ -17=-3220/0, 4=-205/295	(89, 8)	All plates are Plates check about its cent	MT20 plates unles ed for a plus or miniter.	s other ius 5 de	water portding wise indicated egree rotation	d.			and a	OBTH C	ARO	in the second se				
WEBS NOTES	19-20=-391/112, 19- 3-24=-237/271, 11-1 13-26=-361/245, 8-2 4-25=-690/245, 22-2 22-23=-581/156, 23- 7-27=-703/239, 2-20 15-16=-130/111, 5-2 17-18=0/247, 12-14= 17-20=-3415/0, 24-2 26-27=-240/249	24=-353/249, 3=-405/86, 26=-262/264, 55=-585/156, =0/1175, 9-11=0/116 22=-83/117, 6-23=-82, =0/247, 11-14=-3409/ 25=-249/229,	9) 10) (118, (118, (0, 12)	* This truss ha on the bottom 3-06-00 tall b chord and an Ceiling dead 22-25, 22-23 member(s).11 Bottom chord chord dead lo 15-17, 14-15	s been designed to d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members. load (5.0 psf) on m 23-27, 7-27; Wall 9-24, 3-24, 13-26, l live load (40.0 psf) pad (10.0 psf) appli 13-14	ds.)psf om I-25, on Dm 19,				SE 023	AL 594 VEER							
													mm					

NOTES

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A1T	Piggyback Base	4	1	Job Reference (optional)	174616790

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:33 ID:bFWe8TNxnA2q4vi43k0QCqyAQoy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:109.9

Plate Offsets (X, Y): [3:0-3-8,0-2-4], [[4:0-4-0,0-4-8], [5:0-	5-4,0-3-0],	[7:0-4-0,0-4-8	3], [20:0-2-4,0-3-0]	, [22:0-4	-0,0-4-8]							
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MS	0.78 0.57 0.98	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.15 -0.29 0.14 0.09	(loc) 3-22 3-22 17 3-22	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 468	GRIP 244/190 3 lb FT = 20	0)%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x6 SP No.2 2x6 SP No.2 *Except' No.3 2x4 SP No.3 *Except' Left 2x4 SP No.2 2- Structural wood shea 6-0-0 oc purlins, exci 2-0-0 oc purlins (6-0-1 Rigid ceiling directly a bracing, Except: 10-0-0 oc bracing: 12	* 23-3,20-19:2x4 SP * 7-13:2x4 SP No.2 -3-14 thing directly applied ept end verticals, an 0 max.): 5-8. applied or 6-0-0 oc 2-13.	Wi d or NC d 1) 2)	DTES 2x6 SP No.2 front face wii o.c. 12 Total No.2. Unbalanced	4-22=0/479, 4-21= 8-13=-564/178, 9- 9-12=-362/154, 10 6-17=-942/102, 6- 17-20=-1623/283, 7-15=0/399, 7-13= 7-17=-1827/218 bearing block 12' th 3 rows of 10d (fasteners. Bearing roof live loads hav	1220/2 ⁻¹ 13=-439/ I-12=-88/ 20=-56/8 5-20=-11 169/144 long at j 0.131"x3 g is assu ye been o	14, 5-21=-15/ 131, 712, 93, 770/225, 11, t. 17 attachee ") nails space med to be SF considered fo	827, d to ed 3" r	10) * Th on t 3-00 cho 11) One recc UPL doe 12) This loac pan Bott 13) Gra	his truss he botto 3-00 tall rd and a H2.5A mmend LIFT at jt s not col truss ha t of 250. els and com Cho phical pro- con cho	has be m choi by 2-0 ny oth Simpsi ed to c (s) 11. nsider as bee Olb live at all p rd, nor urlin re	en designed rd in all areas 0-00 wide wil er members, on Strong-Tie sonnect truss This connec lateral forces n designed for a and 3.0lb de anel points a neconcurrent v presentation	for a live load where a rect l fit between t with BCDL = connectors connectors to bearing we tion is for upl b or a moving c ad located a long the Top with any other does not dee long to to to	d of 20.0psf tangle the bottom 10.0psf. alls due to ift only and concentrated t all mid Chord and r live loads. pict the size
WEBS REACTIONS FORCES TOP CHORD BOT CHORD	1 Row at midpt 4 2 Rows at 1/3 pts 5 (size) 2=0-3.8, 1' bearing blc Max Horiz 2=153 (LC Max Uplift 11=-81 (LC Max Grav 2=481 (LC 17=3565 (I (lb) - Maximum Comp Tension 1-2=0/41, 2-3=-249/7 5-6=-63/1413, 6-8=-3 9-10=-529/82, 10-11= 2-23=-82/151, 3-23=- 20-21=-776/202, 19-2 17-19=-88/21, 15-17= 13-15=-1027/206, 12-	I-21, 8-13, 9-13, 6-1 7-13 5-20, 7-17 1-0-3-8, 17=(0-3-0 + bck), (req. 0-4-3) 16) 5 212) 5 35, 11=799 (LC 66 LC 33) pression/Maximum 4, 3-5=-335/1098, 20/1584, 8-9=-506/2 =-762/92 23/340, 3-21=-122/2 20-114/64, =-1027/206, -13=-63/491, 11-12=	7, 3) -), 4) 291, 5) 1/8 6) 7) 8) 9)	this design. Wind: ASCE Vasd=95mpl II; Exp B; En Exterior(2E) Exterior(2R) 37-7-8, Exte 44-9-13 to 5 exposed ;C-1 reactions shh DOL=1.60 TCLL: ASCE Plate DOL=1 1.15 Plate D Exp; Ce=1.0 Unbalanced design. This truss ha load of 12.0 overhangs n Provide ader Plates check about its cere This truss ha chord live loa	7-16; Vult=120mp n; TCDL=6.0psf; E closed; MWFRS (-1-0-0 to 4-1-0, In 18-4-8 to 25-6-13 rior(2R) 37-7-8 to 0-10-4 zone; canti C for members an pwn; Lumber DOL 57-16; Pr=20.0 psf OL = 1.15); Is=1.0 0; Cs=1.00; Ct=1.1 snow loads have Is been designed 1 psf or 2.00 times for on-concurrent with quate drainage to ted for a plus or m ter. Is been designed 1 ad nonconcurrent	bh (3-sec CDL=6.0 envelope terior (1) , Interior 44-9-13, lever left d forces =1.60 pla f (roof LL ; Pf=20.4 ; Rough 0, Lu=50 been cor for greate lat roof ld o ther liv prevent v inus 5 de for a 10.0 with any	ond gust))psf; h=25ft; () and C-C 4-1-0 to 18-4 (1) 25-6-13 tr Interior (1) and right & MWFRS fo ate grip : Lum DOL=: psf (Lum DC Cat B; Partia)-0-0 isidered for th er of min roof pad of 15.4 ps vater ponding egree rotation) psf bottom other live loa	Cat. I-8, D III IIV IIV Sf on J. IIVe Sf on J.		ASE(S)	d.) Star	ndard SI OZ	EAL 3594	

- 8) Plates checked for a plus or minus 5 degree rotation
- about its center. 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	A1A	Piggyback Base	5	1	Job Reference (optional)	174616791

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:31 ID:bFWe8TNxnA2q4vi43k0QCqyAQoy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-1-0-0 28<u>-0-0</u> 46-5-5 51-0-0 9-2-4 18-4-8 37-7-8 \mapsto -9-2-4 9-2-4 9-7-8 9-7-8 8-9-13 4-6-11 1-0-0 6x6= 8x8= 6x6= 6 5 30 31 32 33 34 35 7 712 11-8-10 5-1-12 29 36 8x8 🎜 28 37 ^{6x8}≈ 12 14 27 4²⁶ 8 11-10-0 6x6 👟 38 25 9 24 6-6-14 6-6-14 23 5-0-11 4x4 -3 2 °∏ R Ĺ 10 Lt t 39 40 18 41 42 17 16 43 45 14 46 47 13 12 48 49 50 11 5x10 " 15 3x4 II 44 2x4 II 5x10= 4x8= 8x8= 4x6= 4x8= 4x6= 18-6-4 24-1-4 28-0-0 37-5-12 46-7-1 51-0-0 9-2-4 9-2-4 9-4-0 5-7-0 3-10-12 9-5-12 9-1-5 4-4-15 51-0-0

Scale = 1:89

Plate Offsets (X, Y): [2:0-4-14,0-0-2], [4:0-4-0,0-4-8], [6:0-4-0,0-4-12], [14:0-4-0,0-4-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL	(psf) 20.0 20.4/20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.92 0.93 0.80	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.24 -0.41 0.09	(loc) 12-14 12-14 10	l/defl >999 >786 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190	
BCLL BCDL	0.0* 10.0	Code	IRC2021	/TPI2014	Matrix-MS		Wind(LL)	0.09	16-18	>999	240	Weight: 408 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2x6 SP No.2 2x6 SP No.2 *Excep 2x4 SP No.3 *Excep Left 2x4 SP No.3 - 1 Structural wood shea 2-2-0 oc purlins, exc 2-0-0 oc purlins (3-5	t* 17-14:2x6 SP DSt t* 16-6,12-6:2x4 SP 1-6-0 athing directly applie cept end verticals, ar -6 max.): 5-7.	2) S No.2 d or nd	Wind: ASCE Vasd=95mph II; Exp B; En Exterior(2E) Exterior(2R) 37-7-8, Exter 44-9-13 to 50 exposed ;C-0 reactions sho	7-16; Vult=120mp n; TCDL=6.0psf; B closed; MWFRS (-1-0-0 to 4-1-0, Ini 18-4-8 to 25-6-13 rior(2R) 37-7-8 to -0-10-4 zone; cantil C for members an- own; Lumber DOL	oh (3-sec SCDL=6.0 envelope terior (1) , Interior 44-9-13, lever left d forces =1.60 pla	ond gust))psf; h=25ft;) and C-C 4-1-0 to 18-4 (1) 25-6-13 t Interior (1) and right & MWFRS fo ate grip	Cat. 1-8, o						
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 2-1	applied or 10-0-0 oc 18.	3)	DOL=1.60 TCLL: ASCE Plate DOL=1	7-16; Pr=20.0 ps .15); Pg=20.0 psf	f (roof LL ; Pf=20.4	: Lum DOL= psf (Lum DO	1.15 DL =						
WEBS	1 Row at midpt	4-16, 6-16, 6-14, 6-1 9-10	2,	1.15 Plate Do Exp.; Ce=1.0	OL = 1.15); IS=1.0); CS=1.00; Ct=1.1	; Rough 0, Lu=50	Cat B; Partia	lly						
REACTIONS	(size) 2=0-3-8, 1 Max Horiz 2=153 (LC Max Grav 2=2042 (L 15=687 (L	10=0-3-8, 15=0-3-0 C 16) LC 33), 10=2002 (LC LC 53)	4) 3), ⁵⁾	Unbalanced design. This truss ha load of 12.0	snow loads have l is been designed f psf or 2.00 times f	for greate lat roof lo	er of min roof ad of 15.4 p	live sf on						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	6) 7)	Provide adec	uate drainage to	prevent v	vater ponding	g.						
TOP CHORD	1-2=0/41, 2-5=-3073 7-8=-2106/310, 8-9= 9-10=-1951/211	8/351, 5-7=-1906/362 1420/160,	2, 7) 8)	about its cen This truss ha	ter. s been designed f	for a 10.0) psf bottom	I				H CA	Ro	
BOT CHORD	2-18=-327/2652, 16- 15-16=-167/2176, 12 11-12=-137/1351, 10	-18=-326/2653, 2-15=-168/2176, 0-11=-1/10	9)	* This truss h on the botton 3-06-00 tall b	nas been designed n chord in all area	d for a liv s where ill fit bety	e load of 20.0 a rectangle	Opsf Om		1	1 de	OF	A A	Mr.
WEBS	4-18=0/476, 4-16=-1 6-16=-452/131, 6-14 6-12=-620/82, 7-12= 8-11=-1167/236, 9-1	034/195, 5-16=0/672 =-203/196, =0/604, 8-12=0/596, 1=-192/1941	2, 10)	chord and an) This truss ha load of 250.0 panels and a	by other members, s been designed f blb live and 3.0lb d t all panel points a	, with BC for a mov lead loca along the	DL = 10.0psi ring concentr ted at all mid Top Chord a	f. ated I and		The second second		SEA 0235	-	A.V.1111
NOTES	d woof live loads have	haan aanaidans -l f	44	Bottom Chor	d, nonconcurrent	with any	other live loa	ids.						Ξ
 Unbalance this design 	ed roof live loads have	been considered for	11)	or the orients	nin representation	1 does no along the	top and/or	size			5	. A.	ai	3

bottom chord. LOAD CASE(S) Standard H. MILLER

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <u>ANSI/TPI Quility Criteria and DSB-22</u> available from Truss Plate Institute (www.tpinst.org) and <u>Before Building Component Scient Information</u> available from the Structural Building Component description. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	H1	Common	3	1	Job Reference (optional)	174616792

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:42 ID:Lghr9bVc6nz9HXV5QRB?Fnz0Twx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

TOP CHORD

BOT CHORD

this design.

DOL=1.60

design.

WEBS

NOTES

1)

2)

3)

4)

5)

Tension

Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3-4=-393/73

1-5=-30/252, 3-5=0/169, 2-5=-165/87

Unbalanced roof live loads have been considered for

exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially

Unbalanced snow loads have been considered for this

All plates are MT20 plates unless otherwise indicated.

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 6-8-15 to 9-8-15, Interior (1) 9-8-15 to 10-7-11, Exterior(2R) 10-7-11 to 13-7-11, Interior (1) 13-7-11 to 16-6-7 zone; cantilever left and right

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-AS	0.69 0.77 0.15	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.16 0.00 0.00	(loc) 4-5 4-5 4 4-5	l/defl >919 >737 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 72 lb	GRIP 244/190 187/143 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheat except end verticals. Rigid ceiling directly (size) 4=0-3-8, 6 Max Horiz 6=-54 (LC Max Grav 4=449 (LC (lb) - Maximum Com	athing directly applie applied. i=0-3-8 12) 2 48), 6=449 (LC 46) pression/Maximum	6) 7) 8) d, 9)	Plates check about its cer This truss ha chord live loa * This truss l on the bottoo 3-06-00 tall I chord and an This truss ha load of 250.0 panels and a Bottom Choo This truss da	ted for a plus or tetr. as been designer ad nonconcurrer has been design m chord in all are by 2-00-00 wide by other member is been designer blb live and 3.0lb tt all panel points d, nonconcurrer sion requires the	minus 5 de d for a 10. tt with any ed for a liv eas where will fit betw rs. d for a mov o dead loca s along the tt with any at a minim	egree rotation D psf bottom other live load e load of 20. a rectangle veen the bott ving concent tited at all mid a Top Chord other live loa other live loa um of 7/16"	n ads. Opsf tom rated d and ads.						

(lb) - Maximum Compression/Maximum 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top 1-2=-233/77, 2-3=-269/64, 1-6=-422/90, chord and 1/2" gypsum sheetrock be applied directly to the bottom chord. 5-6=-47/57, 4-5=-12/53 LOAD CASE(S) Standard

Thursday SEAL 023594 minim July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	PB3G	Piggyback	3	1	Job Reference (optional)	174616794

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:44 ID:IZEd3GbQCy0F0dUouOXWQByATsv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-0



Scale = 1:38.8

ocale = 1.50.	0											-		
Loading TCLL (roof) Snow (Pf/Pg TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-AS	0.22 0.33 0.04	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 21 lb	GRIP 244/190 FT = 20%	6
LUMBER TOP CHORI BOT CHORI OTHERS BRACING TOP CHORI BOT CHORI REACTIONS	 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood sheat Rigid ceiling directly (size) 1=6-0-0, 2 6=6-0-0 Max Horiz 1=-37 (LC Max Uplift 1=-215 (LC 4=-21 (LC Max Grav 1=221 (LC 4=449 (LC 6=328 (LC 	athing directly applied applied. 226-0-0, 4=6-0-0, 5=6 12) C 42), 2=-25 (LC 16) 17), 5=-213 (LC 43) 2 40), 2=460 (LC 58), 5 56), 5=223 (LC 52), 5 59)	4) 5) d. 6) 5-0-0, 7) 8) 9) , 10	TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design. Plates check about its cer Gable requir Gable studs This truss ha chord live loa 0) * This truss f on the bottor 3-06-00 tall t	E 7-16; $Pr=20.0 \text{ ps}$ 1.15); $Pg=20.0 \text{ psf}$ OL = 1.15; $Is=1.0O; Cs=1.00; Ct=1.1snow loads haveked for a plus or mter.res continuous botspaced at 2-0-0 oas been designedad nonconcurrenthas been designedm chord in all areaby 2-00-00 wide wby chor mombers$	f (roof Ll ; Pf=15.4); Rough IO been con inus 5 do tom chor c. for a 10.1 with any d for a liv is where ill fit betv	:: Lum DOL= b psf (Lum DC Cat B; Partia asidered for the egree rotation d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the bottom	1.15 DL = IIy his ds. Dpsf						
FORCES TOP CHORI	(lb) - Maximum Com Tension D 1-2=-55/150, 2-3=-15 4-5=-38/149	pression/Maximum 57/87, 3-4=-157/85,	11) Provide mec bearing plate 2, 21 lb uplift	chanical connection capable of withst t at joint 4, 215 lb	n (by oth tanding 2 uplift at ju and 21 lk	ers) of truss t 5 lb uplift at j pint 1, 213 lb	o oint uplift						
BOT CHORI WEBS NOTES	D 2-6=-80/54, 4-6=-80/ 3-6=-197/2	/54	12) This truss ha	as been designed	for a more	ving concentr	ated						
 Unbalan this desi Wind: A Vasd=99 II; Exp B Exterior(vertical I forces & DOL=1.0 	ced roof live loads have gn. SCE 7-16; Vult=120mph mph; TCDL=6.0psf; BCI ; Enclosed; MWFRS (en 2E) zone; cantilever left eft and right exposed;C-6 MWFRS for reactions sh 50 plate grip DOL=1.60	been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C and right exposed ; e C for members and nown; Lumber	13 at. end 14	 and a Bottom Chor bottom Chor bottom Chor chord and 1/ the bottom c be Standar Detail for Co consult qualities 	at all panel points a rd, nonconcurrent asign requires that ood sheathing be a /2" gypsum sheetri- hord. d Industry Piggybio nonection to base t ified building desig	along the with any a minim applied d ock be a ack Trus ack Trus aner.	e Top Chord a other live loa um of 7/16" irectly to the t oplied directly s Connection applicable, or	and ds. top / to			1111	SEA 0235	RO(12 10112 10112 10112 10112 1012 1012 10	
	ning a diferruig al la a da in	the plane of the true			Other and a start									

 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	P1G	Monopitch Structural Gable	3	1	Job Reference (optional)	174616795

5-10-8

5-10-8

5-10-8

2-0-0

12 4 Г

2x4 II

21 22

4

12 26

2x4 II

9-7-4

9-4-11

9-10-8

3x4 🚅

5

11

2x4 II

23

3-10-8

3-10-8

3x4 ≤

For

3 20

25

-1-0-0

1-0-0

2

Ø

3x6 II

0-2-9

H

0-2-9

H

4-0-8

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Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:nCF9Psh27DSdS8kGH2d0sAyAPpH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-10-8

4-0-0

2x4 II

6

13

2x4 I

24

10

2x4 II

78

Scale = 1:43.5

Plate Offsets (X, Y): [2:0-4-5,0-0-5]

Loading FCLL (roo Snow (Pf, FCDL BCLL BCLL	(psf) 20.0 (Pg) 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.35 0.50 0.32	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.05 -0.07 0.01 0.02	(loc) 12-18 12-18 2 12-18	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 53 lb	GRIP 244/190 FT = 20%	6
LUMBER FOP CHC 30T CHC WEBS DTHERS SLIDER BRACING FOP CHC 30T CHC JOINTS REACTIC	ORD 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x4 SP No.3	1-6-0 athing directly applied applied. 10= Mechanical 12)	3) 4) 5) 6) 7)	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOLE Plate DOLE Exp.; Ce=1.0 Unbalanced design. This truss ha load of 12.0 g overhangs no Plates check	ed for wind loads ds exposed to wir l Industry Gable E alified building des 7-16; Pr=20.0 psf; DL = 1.15); Is=1.0 ; Cs=1.00; Ct=1.1 snow loads have t s been designed f osf or 2.00 times fl on-concurrent with ed for a plus or mi	in the pland (norm ind Deta signer as f (roof LL Pf=15.4 ; Rough 0 been cor for greate lat roof lo other liv inus 5 de	ane of the tru al to the face ils as applica s per ANSI/TI :: Lum DOL= l psf (Lum DC Cat B; Partia nsidered for tl per of min roof bad of 15.4 p: ve loads. agree rotatior	iss), ble, PI 1. 1.15 DL = illy his f live sf on n	16) This stru cho the LOAD (s truss d ictural w rd and 1 bottom c CASE(S)	esign r ood sh /2" gyr chord.) Star	requires that a mi eathing be applie ssum sheetrock t ndard	inimum of 7 ed directly t be applied o	7/16" to the top directly to
FORCES	Max Opiint 2=-68 (LC Max Grav 2=483 (LC (lb) - Maximum Com Tension DRD 1-2=0/26, 2-4=-476/	, 12), 10=-71 (LC 12) C 40), 10=447 (LC 46 pression/Maximum 166, 4-5=-463/182,	^{;)} 8) 9) 10)	about its cen Gable studs This truss ha chord live loa * This truss h	ter. spaced at 2-0-0 od s been designed f id nonconcurrent v as been designed	c. or a 10.0 with any I for a liv) psf bottom other live loa e load of 20.0	ids. Opsf						
BOT CHO	5-6=-81/11, 6-7=-49, 7-10=-281/56 DRD 2-12=-257/417, 11-1 10-11=-257/417, 9-1 5-13=-496/298, 10-1 6-12=-02/16-5-11=	/41, 7-8=-6/0, 2=-257/417, 0=0/0 3=-497/306, 81/216 4 12- 107/1.	11) 12)	on the botton 3-06-00 tall b chord and an Refer to girde Provide mech	n chord in all areas y 2-00-00 wide wi y other members. er(s) for truss to tru- nanical connection	s where Il fit betw uss conr n (by oth	a rectangle veen the botto nections. ers) of truss t	om to				TH CA	ROU	
NOTES) Unba this d 2) Wind Vasd	6-13=-92/16, 5-11=- lanced roof live loads have esign. : ASCE 7-16; Vult=120mph =95mph; TCDL=6.0psf; BC B: Enclosed: MWERS (an	81/316, 4-12=-107/14 been considered for (3-second gust) DL=6.0psf; h=25ft; C	14 13) 14) at.	 bearing plate Provide mech bearing plate 10. One H2.5A S recommende UPLIFT at it(at joint(s) 2. nanical connectior capable of withst impson Strong-Ti d to connect truss s) 2. This connect	n (by oth anding 7 e conne s to beari ion is for	ers) of truss t '1 lb uplift at j ctors ing walls due uplift only ar	to joint to nd				O'OFESS SEA 0235	L 94	in farming

Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 9-10-8 zone; cantilever left and right exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

does not consider lateral forces.
This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

NGINEER B

July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	B1G	Roof Special Supported Gable	3	1	Job Reference (optional)	174616797

Structural LLC Thurmont MD - 21788

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Tue Jul 01 17:57:39 ID:TcLy68?pJP9wQnb6WFvmpsyAUCL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2<u>-3-8</u> 4-3-8 2-3-8 2-0-0 9-6-11 12-3-8 2-8-13 9-6-11 7¹² 2x4 I 2x4 II 3x4 🛥 8 7 23 2x4 II 22 412 5 ²¹ 6 2x4 II 20 2x4 II 4 19 2 1 1 17¹⁸³ 3x6 🚽 2 8-2-1 16 X 6-6-14 3-4-11 9 $\sim \sim$ 14 25 26 12 27 28 10 29 24 13 11 2x4 II 2x4 II 3x6= 2x4 II 2x4 II 2x4 II 2x4 II 12-3-8

Scale = 1:61.7

oading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
FCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	9	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS									
BCDL	10.0										Weight: 93 lb	FT = 20%	
	2v/ SP No 2		2) Wind: ASC Vasd=95m	E 7-16; Vult=120)mph (3-sec f [.] BCDI =6 (ond gust)	Cat	14) This stru	s truss d	esign i ood sh	requires that a mi	nimum of 7/16	" le top

BOT CHORD 2x4 SP No.2 WFBS 2x6 SP No.2 *Except* 8-9:2x4 SP No.3 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals BOT CHORD Rigid ceiling directly applied. WEBS 1 Row at midpt 8-9 **REACTIONS** (size) 9=12-3-8, 10=12-3-8, 11=12-3-8, 12=12-3-8, 13=12-3-8, 14=12-3-8, 15 = 12 - 3 - 8Max Horiz 15=100 (LC 16) Max Uplift 9=-30 (LC 16), 11=-2 (LC 16), 12=-13 (LC 16), 14=-231 (LC 16) Max Grav 9=284 (LC 66), 10=336 (LC 65), 11=333 (LC 64), 12=334 (LC 63), 13=330 (LC 62), 14=344 (LC 61), 15=287 (LC 60) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-15=-269/64, 1-2=-305/95, 2-3=-177/55, 3-4=-159/50, 4-5=-117/45, 5-6=-79/25, 6-7=-75/112, 7-8=-84/62, 8-9=-265/75 BOT CHORD 14-15=-14/5, 13-14=-14/5, 12-13=-14/5, 11-12=-14/5, 10-11=-14/5, 9-10=-14/5 WEBS 7-10=-279/70, 5-11=-277/96, 4-12=-278/110, 3-13=-279/30, 2-14=-288/382

NOTES

Unbalanced roof live loads have been considered for 1) this design.

- II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 7-11-4 to 10-11-4, Exterior(2N) 10-11-4 to 19-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 8) braced against lateral movement (i.e. diagonal web). Gable studs spaced at 2-0-0 oc. 9)
- 10) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) N/A
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

chord and 1/2" gypsum sheetrock be applied directly to the bottom chord. LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	P2G	Monopitch Structural Gable	3	1	Job Reference (optional)	174616800

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:N9b?ptagktF24rAu7CA7JazNYZw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

-1-0-0 7-10-8 7-10-8 1-0-0 3-10-8 5-10-8 3-10-8 2-0-0 3x12 = 4 ¹² 2x4 II 6 21 5 2x4 II 20 4 2-9-4 3x4 🚅 3-4-8 18 ¹⁹ 3 Ð 0-6-0 0-7-4 ۰ \bigotimes 22 9 23 8 24 17 3x6 II 2x4 II 2x4 II 6x6 II 3x4 = 0-2-8 7-10-8 7-7-0 H +7-4-8 0-2-8 0-3-8 7-10-8 +

Scale = 1:40.2

Plate Offsets (X, Y): [2:0-4-5,0-0-5], [6:0-8-8,Edge], [7:Edge,0-3-8]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/	TPI2014	CSI TC BC WB Matrix-AS	0.81 0.58 0.05	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.15 0.03 0.09	(loc) 9-15 9-15 2 9-15	l/defl >999 >641 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 41 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x4 SP No.3 1 Structural wood shee except end verticals. Rigid ceiling directly (size) 2=0-3-0, 1 Max Horiz 2=65 (LC Max Uplift 2=-61 (LC Max Grav 2=449 (LC	I-6-0 athing directly applied applied. 7=0-1-8 12) 12), 17=-53 (LC 12) 40), 17=373 (LC 45	4) 5) 6) 1, 7) 8) 9)	TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced: design. This truss ha load of 12.0 p overhangs nc Plates check about its cen Gable studs This truss ha chord live loa * This truse ha	7-16; $Pr=20.0 \text{ psi}$.15); $Pg=20.0 \text{ psi}$.15); $Pg=20.0 \text{ psi}$.0L = 1.15); Is=1.0 ; Cs=1.00; Ct=1.1 snow loads have I s been designed f por-concurrent with ed for a plus or miter. spaced at 2-0-0 or s been designed f id nonconcurrent in as been designed f	f (roof LL Pf=15.4; Rough 0 been cor for greate lat roof lo o other liv inus 5 de c. for a 10.0 with any t for a liv	L: Lum DOL= psf (Lum D Cat B; Partia asidered for t er of min roo bad of 15.4 p re loads. egree rotatio D psf bottom other live load	e1.15 OL = ally this f live osf on n ads. Opef						
F ORCES TOP CHORD	(lb) - Maximum Com Tension 1-2=0/26, 2-4=-252/ 5-6=-171/100, 7-10=	pression/Maximum 119, 4-5=-236/90, -101/318, 6-10=-42/1	46 11)	on the botton 3-06-00 tall b chord and an Bearing at joi	n chord in all area y 2-00-00 wide wi y other members. int(s) 17 considers	s where Il fit betv	a rectangle veen the bott	tom						
BOT CHORD	2-9=-141/201, 8-9=-	141/201, 7-8=-141/20)1 [′]	using ANSI/T	PI 1 angle to grai	n formula	a. Building							
WEBS	5-8=-10//141, 4-9=-	123/129, 6-17=-268/1	46 12)	designer sho Provide med	uid verity capacity	of beari	ng surface. ers) of truss	to						
1) Unbalance this design	ed roof live loads have n.	been considered for	13)	bearing plate One H2.5A S	at joint(s) 17. Simpson Strong-Ti	e conne	ctors	10			S	"TH CA	RO	
 Wind: AS(Vasd=95n II; Exp B; Exterior(2 zone; can exposed; and forces DOL=1.6C Truss des only Est 	CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en E) -1-0-0 to 2-0-0, Inter tilever left and right exp porch left and right exp s & MWFRS for reactio 0 plate grip DOL=1.60 igned for wind loads in stude orward to wind	(3-second gust) DL=6.0psf; h=25ft; C velope) and C-C rior (1) 2-0-0 to 7-5-4 bosed ; end vertical le osed;C-C for membe ns shown; Lumber the plane of the truss (normal to the face)	at. 14) ft rs 15)	recommende UPLIFT at jt(and does not This truss ha load of 250.0 panels and a Bottom Chore This truss de structural wo chord and 1/2	d to connect truss s) 2 and 17. This of consider lateral for s been designed f lb live and 3.0lb d t all panel points a d, nonconcurrent t sign requires that od sheathing be a 2" gypsum sheetr	to beari connection or a movies and location along the with any a minim pplied di ock be an	ing walls due on is for uplit ving concent ted at all mid Top Chord other live loa um of 7/16" irrectly to the oplied directl	e to ft only rated d and ads. top		. THUNNY	A.	SEA 0235	L 94	annun a

- only. For studs exposed to wind loads in the plane of the fluss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- the bottom chord. LOAD CASE(S) Standard

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July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	V4	Valley	3	1	Job Reference (optional)	174616801

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:45 ID:gltlltBuFvzI4_J13z3FauzNY??-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:59.9

		-								
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC 0.52 BC 0.58 WB 0.17 Matrix-AS	DEFLinVert(LL)n/aVert(TL)n/aHoriz(TL)0.01	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 64 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly (size) 1=13-5-1 7=13-5-1 Max Horiz 1=166 (LC Max Uplift 5=-9 (LC (LC 16) Max Grav 1=344 (LC 6=418 (LC	athing directly applie applied. 5, 5=13-5-15, 6=13-5 5 C 16) 16), 6=-22 (LC 16), 7 C 44), 5=321 (LC 55) C 5), 7=537 (LC 29)	 4) TCLL: ASC Plate DOL- 1.15 Plate I Exp.; Ce=1 5) Unbalanced design. 6) Plates chec about its ce 7) Gable stud 8) Gable stud 9) This truss f chord live le 7=-20 10) * This truss on the botto 3-06-00 tall chord and a 11) Provide me 	E 7-16; Pr=20.0 psf (roof Ll 1.15); Pg=20.0 psf; Pf=15. DOL = 1.15); Is=1.0; Rough .0; Cs=1.00; Ct=1.10 d snow loads have been co exced for a plus or minus 5 d enter. irres continuous bottom cho is spaced at 4-0-0 oc. has been designed for a 10. bad nonconcurrent with any has been designed for a lin om chord in all areas where by 2-00-00 wide will fit betty any other members, with BC	.: Lum DOL=1.15 ‡ psf (Lum DOL = Cat B; Partially nsidered for this egree rotation rd bearing. 0 psf bottom other live loads. re load of 20.0psf a rectangle ween the bottom CDL = 10.0psf. pers) of trues to					
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=95i II; Exp B; Exterior(2 zone; car and force DOL=1.6 3) Truss des only. For see Stand or consult	(lb) - Maximum Corr Tension 1-2=-497/164, 2-3=- 4-5=-286/45 1-7=-61/428, 6-7=-1 3-6=-325/118, 2-7=- ced roof live loads have n. CE 7-16; Vult=120mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er 2E) 0-0-0 to 3-0-0, Inter 2E) 0-0-0 to 3-0-0, Inter tillever left and right ex is & MWFRS for reaction 0 plate grip DOL=1.60 signed for wind loads in studs exposed to wind dard Industry Gable En t qualified building desi	pression/Maximum 129/86, 3-4=-101/65 /8, 5-6=-1/8 365/123 been considered for (3-second gust) DL=6.0psf; h=25ft; C ivelope) and C-C ior (1) 3-0-0 to 13-4-2 posed ;C-C for memt ons shown; Lumber the plane of the trus (normal to the face) d Details as applicab gner as per ANSI/TP	bearing pla 22 lb uplift. 12) Beveled pla surface with 13) This truss f load of 250 panels and Bottom Cho 14) This truss of structural w Cat. chord and ' the bottom 3 LOAD CASE(S bers	te capable of withstanding § at joint 6 and 20 lb uplift at j ate or shim required to provi nas been designed for a mo .0lb live and 3.0lb dead loca at all panel points along the design requires that a minim rood sheathing be applied of 1/2" gypsum sheetrock be a chord.) Standard	 b uplift at joint 5, bint 7. de full bearing ving concentrated ated at all mid Top Chord and other live loads. um of 7/16" irectly to the top pplied directly to 		(~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		SEA OV OV OV SEA	ROLL 94

- II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 13-4-3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

The manual 023594 100000 MI July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	V3	Valley	6	1	Job Reference (optional)	174616802

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:45 ID:1r5yTxxAFWdGnIDUko?Q6DzjY84-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:44

3)

4)

zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber

Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially

DOL=1.60 plate grip DOL=1.60

Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.66 0.76 0.12	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 46 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly (size) 1=10-7-10 Max Horiz 1=129 (LC Max Uplift 4=-28 (LC Max Grav 1=360 (LC 5=681 (LC 	5) 6) 7) 8) 9) 10) 7-10), 11)	Unbalanced design. Plates check about its cer Gable requin Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord all the botton 3-06-00 tall h chord and ar Provide mec bearing plate	snow loads have ted for a plus or i ter. es continuous bo spaced at 4-0-0 is been designer ad nonconcurren nas been designer n chord in all are yo 2-00-00 wide yo other member hanical connecti e capable of with	e been cor minus 5 de ottom chor oc. d for a 10.0 tt with any ed for a liv eas where will fit betw rs, with BC ion (by oth standing 2	sidered for the egree rotation d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the bott DL = 10.0psi ers) of truss to 8 lb uplift at j	his n ds. dpsf om f. to joint						
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=95 II; Exp B; Exterior(7	(lb) - Maximum Com Tension 1-2=-542/131, 2-3=- 1-5=-70/467, 4-5=-9, 2-5=-409/154 ed roof live loads have gn. ICE 7-16; Vult=120mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (en Enclosed; MWFRS (en Enclosed) - 0 to 3-0-0. Interi	pression/Maximum 108/58, 3-4=-270/47 /9 been considered fo (3-second gust) DL=6.0psf; h=25ff; ivelope) and C-C ior (1) 3-0-0 to 10-5	12) 7 13) r 14) Cat. LO	Beveled plat surface with This truss ha load of 250.0 panels and a Bottom Chor This truss de structural wo chord and 1/ the bottom c AD CASE(S)	e or shim require truss chord at jo is been designee ollb live and 3.0lb at all panel point d, nonconcurren esign requires that od sheathing be 2" gypsum shee hord. Standard	ed to provid int(s) 1. d for a movid dead local s along the t with any at a minimi- e applied di trock be ap	de full bearin ring concentr ted at all mid Top Chord a other live loa um of 7/16" rectly to the oplied directly	g rated l and ids. top y to				WITH CA	ROL



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	PB1G	Piggyback	3	1	Job Reference (optional)	174616804

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:TS?fUnlpBF1wyFUnXIr0o7yAU_T-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:50.4

L oading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	15	(psf) 20.0 5.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2) 2021/	TPI2014	CSI TC BC WB Matrix-AS	0.22 0.38 0.13	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 90 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP Na 2x4 SP Na 2x4 SP Na 2x4 SP Na Structural Rigid ceili (size) Max Horiz Max Uplift Max Grav	5.2 5.3 5.3 5.3 wood sheat ng directly 1=19-3-0, 11=19-3-0 14=19-3-0 17=19-3-0 17=19-3-0 1=27 (LC 12=-14 (LI 12=-14 (LI 17=-10 (LI 12=23 (LC 10=440 (LI 12=354 (LI 14=336 (LI) 14=336 (LI)	athing directly appli applied. 2=19-3-0, 10=19-3 0, 12=19-3-0, 13=19 0, 15=19-3-0, 16=19 1, 18=19-3-0 13) C 66), 11=-162 (LC C 17), 13=-10 (LC 1 C 17), 16=-10 (LC 1 C 17), 16=-10 (LC 76 C 16), 18=-13 (LC 76 C 74), 11=225 (LC C 83), 13=326 (LC C 81), 15=323 (LC	ed. -0, -3-3-0, -3-3-0, -73), 17), 16), 16), 16), 82), 82), 80),	 2) 3) 4) 5) 6) 7) 	Wind: ASCE Vasd=95mpf II; Exp B; En Exterior(2R) 18-11-5 zone vertical left a forces & MW DOL=1.60 pl Truss design only. For stu see Standarc or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate DOL Exp.; Ce=1.0 Unbalanced design. Plates check about its cen Gable requir	7-16; Vult=120m ; TCDL=6.0psf; E closed; MWFRS (0-3-11 to 3-3-11, 9-7-8 to 12-7-8, If s; cantilever left ain and right exposed; FRS for reactions ate grip DOL=1.6 ed for wind loads tds exposed to wind 1 Industry Gable E alified building de 7-16; Pr=20.0 psf OL = 1.15; Is=1.0; ; Cs=1.00; Ct=1.1 snow loads have ed for a plus or m ter. es continuous bot	bh (3-sec 3CDL=6.1 envelope Interior (1 nterior (1 nterior (2 c-C for n s shown; 0 in the pl- nd (norm End Deta signer as f (roof LL ; Pf=15.2); Rough 10 been cor	cond gust) Dpsf; h=25ft; i e) and C-C 1) 3-3-11 to 9) 12-7-8 to exposed ; end nembers and Lumber ane of the tru al to the face ils as applica s per ANSI/TI .: Lum DOL= It psf (Lum DC C at B; Partia nsidered for th egree rotation d bearing.	Cat.)-7-8, I ble, PI 1. 1.15 DL = Illy his	13) This stru choi the 14) See Deta con: LOAD C	truss di ctural wo rd and 1 bottom c Standa ail for Co sult qual cASE(S)	esign r ood sh /2" gyp shord. rd Indu nnecti ified bu Star	equires that a mi eathing be applie osum sheetrock b istry Piggyback 1 on to base truss uilding designer. tdard	nimum of 7/16" d directly to the top e applied directly to russ Connection as applicable, or	

- 16=336 (LC 79), 17=326 (LC 78), 8) Gable studs spaced at 2-0-0 oc. 18=355 (LC 77) This truss has been designed for a 10.0 psf bottom 9) chord live load nonconcurrent with any other live loads.
- FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-97/131, 2-3=-84/68, 3-4=-83/65, 4-5=-78/70, 5-6=-105/91, 6-7=-105/89,
- 7-8=-78/70, 8-9=-83/65, 9-10=-84/67, 10-11=-4/94 BOT CHORD 2-18=-76/53, 17-18=-27/53, 16-17=-27/53, 14-16=-27/53, 13-14=-27/53, 12-13=-27/53, 10-12=-76/53
- WEBS 6-15=-239/5, 5-16=-285/53, 4-17=-281/42, 3-18=-299/47, 7-14=-285/53, 8-13=-282/42, 9-12=-299/47

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

10) * This truss has been designed for a live load of 20.0psf

3-06-00 tall by 2-00-00 wide will fit between the bottom

bearing plate capable of withstanding 165 lb uplift at joint

uplift at joint 17, 13 lb uplift at joint 18, 10 lb uplift at joint

on the bottom chord in all areas where a rectangle

11) Provide mechanical connection (by others) of truss to

1, 162 lb uplift at joint 11, 10 lb uplift at joint 16, 10 lb

14, 10 lb uplift at joint 13 and 14 lb uplift at joint 12.

12) This truss has been designed for a moving concentrated

load of 250.0lb live and 3.0lb dead located at all mid

panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

chord and any other members.

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	D1G	Common Supported Gable	6	1	Job Reference (optional)	174616805

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:39 ID:a5P4qXhklJ7tK25153C5Y6z13Yc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:37.7

Plate Offsets (X, Y): [1:0-2-1,0-1-0], [3:0-2-1,0-1-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MP	0.24 0.24 0.10	DEFL Vert(LL) Vert(CT) Wind(LL)	in 0.00 0.00 0.00	(loc) 4-5 4-5 4-5	l/defl >999 >999 >999	L/d 360 240 240	PLATES MT20 Weight: 16 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shee 4-0-0 oc purlins. Rigid ceiling directly bracing. (size) 4=0-3-8, 5 Max Horiz 4=293 (LC Max Uplift 4=-374 (L Max Grav 4=374 (L)	athing directly applie applied or 6-0-0 oc 5=3-0-0 C 48), 5=-293 (LC 48 C 39) C 47), 5=787 (LC 39)	5) 6) 7) 8) 8) 9) 3) 1(Unbalanced design. Plates check about its cer Gable studs This truss ha chord live lo * This truss I on the bottoo 3-06-00 tall I chord and an	snow loads have l ked for a plus or m iter. spaced at 2-0-0 o as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w hy other members.	been cor inus 5 de c. for a 10.0 with any d for a liv s where ill fit betv	nsidered for t egree rotation 0 psf bottom other live loz e load of 20. a rectangle veen the bott	this n ads. Opsf tom					
TOP CHORD BOT CHORD WEBS NOTES	(ib) - Maximum Com Tension 1-2=-37/384, 2-3=-7/ 1-5=-293/94, 4-5=0/(2-5=-545/123	0/410 0, 3-4=-293/94	1 [.] 12	 Non Standar This truss hat load of 250.0 panels and a Bottom Choir 	rd bearing conditio as been designed f Dib live and 3.0lb d at all panel points a rd, nonconcurrent	n. Revie for a movie lead locate along the with any	ew required. ving concent ited at all mic Top Chord other live loa	rated d and ads.					

- Unbalanced roof live loads have been considered for 1) this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	D1	Common	30	1	Job Reference (optional)	174616806

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:39 ID:lx2paTdzAUNkc7dtkp5gJrz13Yi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.9

Plate Offsets (X, Y): [1:0-2-1,0-1-0], [2:0-2-0,Edge], [3:0-2-1,0-1-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 15.4/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202 ²	I/TPI2014	CSI TC BC WB Matrix-MP	0.18 0.29 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.01 0.00 0.00	(loc) 4-5 4-5 4 4-5	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20	GRIP 244/190	
BCDL	10.0											Weight: 14 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS (FORCES	2x4 SP No.2 2x4 SP No.2 Structural wood shea 4-0-0 oc purlins. Rigid ceiling directly bracing. size) 4=0-3-8, 5 Max Horiz 5=-27 (LC Max Grav 4=393 (LC (Ib) - Maximum Com Tension	athing directly applie applied or 6-0-0 oc i=0-3-8 12) 2 47), 5=393 (LC 39) pression/Maximum	7) ed or 8) LC	* This truss h on the bottom 3-06-00 tall b chord and ar This truss ha load of 250.0 panels and a Bottom Chor PAD CASE(S)	has been designe n chord in all area by 2-00-00 wide w hy other members is been designed lib live and 3.0lb d it all panel points d, nonconcurrent Standard	d for a live as where a vill fit betw 5. for a mov dead locat along the with any	e load of 20. a rectangle reen the bott ring concentr ted at all mic Top Chord a other live loa	Opsf om rated d and ads.						
TOP CHORD BOT CHORD	1-2=-199/134, 2-3=- ⁻ 1-5=-27/126, 4-5=-2 ⁻	199/134 1/126, 3-4=-27/126												
 NOTES Unbalancec this design. Wind: ASCI Vasd=95mp II; Exp B; E Exterior(2E vertical left forces & MV DOL=1.60 p TCLL: ASC Plate DOL= 1.15 Plate I Exp.; Ce=1. Unbalancec design. Plates chec about its ce This truss h chord live loce 	d roof live loads have E 7-16; Vult=120mph bh; TCDL=6.0psf; BCI nclosed; MWFRS (en) zone; cantilever left and right exposed;C-1 WFRS for reactions sl blate grip DOL=1.60 E 7-16; Pr=20.0 psf (f 1.15); Pg=20.0 psf; P DOL = 1.15); Is=1.0; F DOL = 1.15); Is=1.0; F DOL = 1.15); Is=1.0; F d snow loads have be sked for a plus or minu nter. las been designed for bad nonconcurrent with	been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C and right exposed ; C for members and hown; Lumber roof LL: Lum DOL=1 ff=15.4 psf (Lum DO Rough Cat B; Partial en considered for th us 5 degree rotation a 10.0 psf bottom th any other live load	Cat. end I.15 JL = Iy is									SEA 0235	ROLIN L 94	

- design.
- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.

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C. Million July 2,2025

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	A3G	Piggyback Base Supported Gable	2	1	Job Reference (optional)	174616808

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:36 ID:Jj4xyVLkTXkyNltxh_nWisyAQ0e-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:106.2

Plate Offsets (X, Y): [11:0-3-0,0-1-12], [21:0-3-0,0-1-12], [35:0-1-8,0-1-8]

					_										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20.4	(psf) 20.0 4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	C: TC BC W M	SI C C /B latrix-AS	0.25 0.20 0.31	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 26	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 425 lb	GRIP 244/190 FT = 20'	%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS	2x4 SP No. 2x4 SP No. 2x4 SP No. 2x4 SP No. 2x4 SP No. Structural w except end (6-0-0 max. Rigid ceiling 1 Row at m	2 2 3 3 vood shea verticals, .): 11-21. g directly idpt 26=43-8-8	athing directly applied , and 2-0-0 oc purlins applied. 25-26, 16-34, 17-33, 18-32, 19-31, 20-30, 22-29, 23-28, 24-27, 15-36, 14-37, 13-38, 12-39, 10-40, 9-41, 8 8, 27=43-8-8, 28=43-8 30-43-88, 31-43-8	-42 FORCES -8, ТОР СНОRD	(lb) - Tens 1-49	Grav 26=278 (l 154), 28= (LC 152), 31=333 (l 149), 33= (LC 147), 37=333 (l 144), 39= (LC 142), 42=331 (l 139), 44= (LC 137), 47=332 (l 134), 49= - Maximum Com sion 9=-268/80, 1-2=-	LC 155 334 (L 30=33 LC 150 333 (L 36=33 LC 145 333 (L 41=33 LC 140 333 (L 46=33 LC 135 283 (L 1pressi), 27=329 (LC C 153), 29=3; 3 (LC 151),), 32=33 (LC C 148), 34=3; 3 (LC 146),), 38=333 (LC C 143), 40=3; 3 (LC 141),), 43=335 (LC C 138), 45=3; 4 (LC 136),), 48=339 (LC C 133) pn/Maximum 6, 2-3=-187/1	27 27 234 334 331 331,	NOTE 1) Ur thi 2) W Va II; (30) C	S nbalanced s design. ind: ASCE isd=95mp Exp B; Er E) 0-1-12 mrer(3R)	16-34 18-32 20-30 23-28 15-36 13-38 10-40 7-43= 4-46= I roof li 5 7-16; wh; TCl nclose to 4-6 18-4-8	=-264/35, 17-33 =-264/35, 19-31 =-264/20, 22-29 =-270/61, 24-27 =-264/35, 14-37 =-264/35, 14-37 =-267/19, 9-41 =-276/56, 6-44 =-2-282/60, 3-47 =-282/60, 3-4	-264/35, -264/38, -266/0, -267/51, -264/35, -264/20, 270/59, 8- 73/57, 5-4 84/41, 2-4 en consid -second g =6.0psf; h lope) and -6-0 to 18	42=-271/56, 5=-276/50, 8=-291/124 ered for ust) ⊫25ft; Cat. C-C Corner -4-8, 2-8-12 to
	2 3 3 4 4 4 4 Max Horiz 4 Max Uplift 2 2 4 4 4 4 4 4 4	32=43-8-8 36=43-8-8 39=43-8-8 15=43-8-8 15=43-8-8 19=180 (L 26=-5 (LC 28=-15 (LC 28=-15 (LC 12=-12 (LC 14=-12 (LC 19=-102 (I	, 33=43-68, 31=43-6 , 33=43-88, 34=43-8 , 43=43-88, 34=43-8 , 43=43-88, 44=43-8 , 46=43-8-8, 47=43-8 , 49=43-8-8 , C 16) : 131), 27=-9 (LC 17), C 17), 41=-13 (LC 16) C 16), 43=-10 (LC 16) C 16), 43=-10 (LC 16) C 16), 48=-127 (LC 1) LC 14)	, 8, 8, 8, 8, 8, 8, 8,	3-4= 7-8= 10-1 12-1 14-1 17-2 21-2 23-2 48-4 45-4 42-4 38-3 34-3 31-3 28-2	-154/123, 4-5=- -83/82, 8-9=-76 11=-123/100, 11 13=-60/104, 13-1 15=-60/104, 15-1 18=-60/104, 18-1 22=-123/100, 22 24=-75/73, 24-25 49=-1/5, 47-48=- 46=-1/5, 47-48=- 46=-1/5, 47-48=- 39=-1/2, 37-38=- 39=-1/2, 33-34=- 32=-1/2, 30-31=- 29=-1/2, 27-28=-	125/10 /75, 9- -12=-60 14=-60/ 17=-60/ 19=-60/ 21=-60/ -23=-7(5=-67/7 1/5, 46 1/5, 43 2/2, 39 1/2, 32 1/2, 29 1/2, 26	8, 5-7=-106/9 10=-75/99, 0/104, 104, 104, 104, 104, 104, 104, 104,	9,9,9/19	37 to ve M ¹ gri	-7-8, Corr 43-6-12 z trical left of WFRS for p DOL=1	ner(3R cone; c expose reacti .60	2) 37-7-8 to 42-0- antilever left and ad;C-C for memb bons shown; Lumi H CA SEA 0235 VGIN R), Exterior right expo ars and foi per DOL=1 RO L 94	(2N) 42-0-0 ised ; end rces & 1.60 plate

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSE2** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbaccomponents.com)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A3G	Piggyback Base Supported Gable	2	1	Job Reference (optional)	174616808

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 6) Provide adequate drainage to prevent water ponding.
- Plates checked for a plus or minus 5 degree rotation about its center.
- 8) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) N/A
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:36 ID:Jj4xyVLkTXkyNitxh_nWisyAQ0e-RfC?PsB70Hg3NSQPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	V5	Valley	6	1	Job Reference (optional)	174616809

Run: 25.20 E May 29 2025 Print: 25.2.0 E May 29 2025 MiTek Industries, Inc. Wed Jul 02 13:47:26 ID:K0b4WtoZtQrcr3OUK1neBiz0VFn-4uYwa5l4kpHOdBjNkiNOZHmfjSqGw4c5KgySlxz04x?

Page: 1

2-0-0



Scale = 1:31.4

Plate Offsets (X, Y):	[1:0-2-6,0-1-0], [3:0-2-6,0-1-0]
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		-											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014 4) TCLL: AS	CSI TC BC WB Matrix-AS	0.20 0.32 0.04	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in 0.00 -0.01 0.00 0.00	(loc) 4-10 4-10 1 4-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 17 lb	GRIP 244/190 FT = 20%	
FORCES TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood shea Rigid ceiling directly (lb/size) 1=88/4-0- 4=108/4-0 Max Horiz 1=-27 (LC Max Grav 1=299 (LC 4=320 (LC (lb) - Maximum Com Tension 1-11=-171/51, 2-11= 3-12=-171/56 1-13=-27/75, 4-13=- 3-14=-2/58 2-4=-187/4	athing directly applied applied. 0, 3=88/4-0-0, 0-0 12) 2 48), 3=272 (LC 51), 54) pression/Maximum -76/56, 2-12=-76/61, 2/58, 4-14=-2/58,	 Plate DO 1.15 Plate Exp.; Ce- governs. Dubalance Plates ch about its Plates ch about its Gable stu This trus chord live * This trus on the bc 3-06-00 t chord and All bearin capacity N/A 	=1.15); Pg=20.0 DOL = 1.15); Is= 1.0; Cs=1.00; Ct= ed snow loads have ecked for a plus of center. ds spaced at 4-0-1 has been designed load nonconcurrer is has been designed load nonconcurrer	psf; Pf=15.4 1.0; Rough 1.10; Min. f ve been cor r minus 5 de 0 oc. ed for a 10.0 ent with any ned for a 10.0 ent with any ned for a liv reas where e will fit betw ers. o be SP No.	psf (Lum DC Cat B; Partia iat roof snow sidered for the gree rotation 0 psf bottom other live loa e load of 20.0 a rectangle reen the botto 3 crushing	DL = Ily Ioad his ds. Dpsf						
 Unbalance this design Wind: ASC Vasd=95m Exp B; E Exterior(2E vertical left forces & M DOL=1.60 Truss desi only. For s see Standa or consult of 	d roof live loads have E 7-16; Vult=120mph ph; TCDL=6.0psf; BC inclosed; MWFRS (en 2) zone; cantilever left and right exposed;C- WFRS for reactions si plate grip DOL=1.60 igned for wind loads ir studs exposed to wind ard Industry Gable Enq qualified building desig	been considered for (3-second gust) DL=6.0psf; h=25ft; Ca velope) and C-C and right exposed ; e C for members and hown; Lumber the plane of the trus (normal to the face), d Details as applicabl gner as per ANSI/TPI	12) This trust load of 24 at. panels ar Bottom C and 13) This trust structural chord and the bottom s LOAD CASE e, 1.	has been design 0.0lb live and 3.0l d at all panel poin hord, nonconcurre design requires th wood sheathing b 1 1/2" gypsum she n chord. S) Standard	ed for a mov lb dead loca its along the ent with any hat a minim be applied di vetrock be ap	ving concentri- ted at all mid Top Chord a other live loa um of 7/16" rectly to the t oplied directly	ated and ds. cop / to		" Children		SEA 0235		Manunana and

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A MiTek Aff 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	C1G	Common	2	1	Job Reference (optional)	174616810

2-0-0

Structural, LLC, Thurmont, MD - 21788,

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:39 ID:0XWRABBIRfH85jSs_nDOJ3z0V4x-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52

00010 = 1.02													
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI20 ⁻ 3) Truss	CSI TC BC WB Matrix-AS	0.43 0.53 0.13	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.09 -0.11 0.04 0.04	(loc) 12-13 12-13 2 15-16	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 72 lb	GRIP 244/190 FT = 20%	6
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x6 SP No.2 1-6-0 Structural wood she Rigid ceiling directly (size) 2=0-3-0, Max Horiz 2=75 (LC Max Grav 2=540 (L (lb) - Maximum Cor Tension 1-2=0/45, 2-4=-477, 5-6=-418/232, 6-7= 8-10=-477/177, 10-	1-6-0, Right 2x6 SP N eathing directly applied y applied. 10=0-3-0 C 15) .C 2), 10=540 (LC 2) mpression/Maximum //177, 4-5=-433/197, -418/232, 7-8=-433/19	3) Truss only. see St or con 4) TCLL: Plate I 1.15 P Exp.; (d. 5) Unbala desigr 6) This tr load o overha 7) Plates about 8) Gable 9) This tr 97, chord 10) * This	designed for wind loads For studs exposed to wi tandard Industry Gable I sult qualified building de ASCE 7-16; Pr=20.0 ps DOL=1.15); Pg=20.0 ps Plate DOL = 1.15); Is=1.1 Ce=1.0; Cs=1.00; Ct=1. anced snow loads have n. uss has been designed f 12.0 psf or 2.00 times angs non-concurrent wit checked for a plus or m its center. studs spaced at 2-0-0 c uss has been designed live load nonconcurrent truss has been designed	s in the plaind (norm End Deta esigner as sf (roof LL f; Pf=15.4 0; Rough 10 been cor for greate flat roof ld h other lin ninus 5 de cc. for a 10.4 with any ed for a liv	ane of the tru al to the face is as applica per ANS//TI .: Lum DOL= psf (Lum DC Cat B; Partia asidered for th er of min roof pad of 15.4 p; ve loads. ggree rotation 0 psf bottom other live loa e load of 20.0	ss), ble, PI 1. 1.15 DL = Illy his f live sf on n ds. Dpsf						
BOT CHORD WEBS 1) Unbalance this design 2) Wind: ASC Vasd=95m II; Exp B; E Exterior(2E Exterior(2E zone; canti and right e members a Lumber DC	2-16=-77/339, 15-1 14-15=-77/339, 10- 12-13=-77/339, 10- 6-14=-147/338, 5-1 7-13=-149/99, 8-12 dr coof live loads have to the load have to the l	6=-77/339, :14=-77/339, :12=-77/339 5=-149/99, 4-16=-111 :=-111/137 e been considered for h (3-second gust) CDL=6.0psf; h=25ft; C invelope) and C-C erior (1) 2-0-0 to 6-0-0 rior (1) 9-0-0 to 13-0-(kposed ; end vertical le id right exposed;C-C f S for reactions shown; DL=1.60	on the 3-06-0 chord /137, 11) This tr load o panels Botton 12) This tr structu at. chord the bo b, LOAD CA o eft	bottom chord in all area 10 tall by 2-00-00 wide w and any other members uss has been designed f 250.0lb live and 3.0lb of s and at all panel points n Chord, nonconcurrent uss design requires tha aral wood sheathing be and 1/2" gypsum sheeti ttom chord. SE(S) Standard	as where vill fit betv 3. for a mov dead loca along the : with any t a minim applied di rock be a	a rectangle veen the bott ving concentr ted at all mid Top Chord a other live loa um of 7/16" rectly to the t oplied directly	om ated and ids. top y to			and a second sec	SEA 0235	IROJ L 94 EEER.EE	

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	V7	Valley	2	1	Job Reference (optional)	174616811

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:45 ID:bqclbL6AbiZOQG35Km1qJuz0V_a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12

16 3

4-4-2 8-8-4 4-4-2 4-4-2 4x4 = 2 10 11 2-11-0 8 F 9 13

4-4-2



Scale = 1:34.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.72	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS									
BCDL	10.0										Weight: 30 lb	FT = 20%	
LUMBER TOP CHORD	2x4 SP No.2		5) Unbalance design.	d snow loads hav	/e been cor	nsidered for th	nis						

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.3
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structura	wood sheathing directly applied
BOT CHORD	Rigid ceil	ing directly applied.
REACTIONS	(size)	1=8-8-4, 3=8-8-4, 4=8-8-4
	Max Horiz	1=-44 (LC 12)
	Max Uplift	1=-55 (LC 41), 3=-55 (LC 40)
	Max Grav	1=270 (LC 43), 3=270 (LC 47),
		4=631 (LC 2)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	·
TOP CHORD	1-2232	224 2-2-222/224

- BOT CHORD 1-4=-206/173, 3-4=-206/173 WEBS 2-4=-468/159
- NOTES
- Unbalanced roof live loads have been considered for 1) this design.

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-4-8, Exterior(2R) 4-4-8 to 7-4-8, Interior (1) 7-4-8 to 8-8-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 6) Plates checked for a plus or minus 5 degree rotation
- about its center.
- Gable requires continuous bottom chord bearing. 7)
- Gable studs spaced at 4-0-0 oc. 8)
- This truss has been designed for a 10.0 psf bottom 9) chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 1 and 55 lb uplift at joint 3.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



Page: 1

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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	V6	Valley	2	1	Job Reference (optional)	174616812

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Tue Jul 01 17:57:45 ID:M6auiH?XjxQgrttMINMjR_z0V_j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-7-2



Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 17 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.3
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structural	wood sheathing directly applied
BOT CHORD	Rigid ceili	ing directly applied.
REACTIONS	(size)	1=5-2-4, 3=5-2-4, 4=5-2-4
	Max Horiz	1=25 (LC 13)
	Max Uplift	1=-27 (LC 46), 3=-27 (LC 44)
	Max Grav	1=278 (LC 43), 3=278 (LC 47),
		4=410 (LC 53)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-215/	(178, 2-3=-215/178
DOT OUODD	4 4 440	400 0 4 440/400

OT CHORD 1-4=-112/162, 3-4=-112/162 WEBS 2-4=-305/79

NOTES

Unbalanced roof live loads have been considered for 1) this design.

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.

- about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 9)
- chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 27 lb uplift at joint 3.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A5	Monopitch	7	1	Job Reference (optional)	174616813

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:38 ID:X6fz5k6uCWTc9dlojIyCKbyAQcN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.2

Plate Offsets (X, Y): [2:0-7-15,Edge]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/	TPI2014	CSI TC BC WB Matrix-AS	0.64 0.83 0.44	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.14 -0.17 0.02 0.02	(loc) 8-9 8-9 2 9-12	l/defl >987 >818 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 71 lb	GRIP 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95m II; Exp B; E E Exterior(2E 12-0-0 zon vertical left MWFRS fo 20 20 20 20 20 20 20 20 20 20 20 20 20 2	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x6 SP No.2 1 Structural wood shea except end verticals. Rigid ceiling directly 1 Row at midpt (size) 2=0-3-8, 8 Max Horiz 2=162 (LC Max Uplift 8=-39 (LC	-6-0 athing directly applied 5-8 = Mechanical 2 16) 16) 2 2), 8=545 (LC 23) pression/Maximum 170, 4-5=-127/86, 71 79/388, 7-8=0/0 /97 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C erior (1) 2-4-14 to ght exposed ; end hers and forces & mber DOL=1.60 plate roof LL: Lum DOL=1. ff=15.4 psf (Lum DOI Rough Cat B; Partially en considered for thi	5) 6) 7) 4, 8) 9) 10) 11) 12) LO/ at. $\frac{15}{\sqrt{2}} = \frac{15}{\sqrt{2}}$	This truss ha load of 12.0 p overhangs no Plates check about its ceni- This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and an Refer to girde Provide mech bearing plate 8. This truss ha load of 250.0 panels and a Bottom Chord This truss de structural wor chord and 1/2 the bottom ch AD CASE(S)	s been designed for sef or 2.00 times fit an-concurrent with ed for a plus or mit er. s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members. or(s) for truss to tru- nanical connection capable of withsta s been designed for b live and 3.01b de all panel points a d, nonconcurrent w sign requires that a b sheathing be ap " gypsum sheetro ford. Standard	or greate at roof Ic other liv nus 5 de or a 10.0 vith any for a live s where Il fit betw uss conn (by oth anding 3 or a move ead loca long the with any a minim pplied di pck be ap	er of min roof ad of 15.4 p; re loads. gree rotation opsf bottom other live loa e load of 20.0 a rectangle reen the bottu ections. ers) of truss t 9 lb uplift at j ring concentr ted at all mid Top Chord a um of 7/16" rectly to the t splied directly	live sf on ds. Dpsf om oint ated and ds. top / to				SEA 0235		

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Unumini Vinumini

July 2,2025

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A4AT	Piggyback Base	2	1	Job Reference (optional)	174616814

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:38 ID:X6fz5k6uCWTc9dlojIyCKbyAQcN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:95

Plate Offsets (X, Y): [4:0-3-0,Edge], [5:0-3-0,0-2-5], [6:0-4-0,0-2-8], [9:0-4-4,0-2-0]

_oading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-AS	0.77 0.94 1.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.18 -0.29 0.11 0.05	(loc) 9-10 11-12 7 11-12	l/defl >999 >997 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 193 lb	GRIP 244/190 FT = 20%
LUMBER FOP CHORD 2x4 S 30T CHORD 2x4 S 12-10 WEBS 2x4 S 3RACING FOP CHORD Struct excep (6-0-C 30T CHORD Rigid WEBS 1 Row REACTIONS (size) Max He Max G FORCES (lb) -1 Tensi FOP CHORD 1-2=0 5-6=- BOT CHORD 1-2=0 5-6=- 10 Unbalanced roof 1 this design. 2) Wind: ASCE 7-16 Vasd=95mph; TC II; Exp B; Enclose Exterior(2E) -1-0- 15-7-11, Exterior(20-5-8 to 24-1-4 z end vertical left e; MWFRS for react	P No.2 *Excep P No.2 *Excep 2:2x4 SP SS P No.3 *Excep ural wood she t end verticals max.): 5-6. ceiling directly v at midpt 7=0-3-8, oriz 14=203 (I av 7=1100 (I Maximum Com 0, 12, 2-3=-2432 203/0, 6-7=-10 98/167, 12- 234/2517, 9 234/2517, 9 234/2	bt* 5-6:2x6 SP No.2 bt* 13-3,9-8:2x4 SP N bt* 14-2:2x6 SP No.2 athing directly applied and 2-0-0 oc purlins applied. 6-7, 4-10, 5-9 14=0-3-8 LC 16) LC 42), 14=1213 (LC pression/Maximum 2/0, 3-5=-1732/0, 184/20, 2-14=-1166/0 13=-31/258, 3-12=0/4 -11=-67/1462, 30/0 11=0/450, 4-10=-905// 01/58, 2-12=-96/1965 51 been considered for (3-second gust) IDL=6.0psf; h=25ft; C velope) and C-C erior (1) 2-1-12 to 20-5-8, Interior (1) r left and right expose members and forces imber DOL=1.60 platt	3) o.3, 4) 5) 6) 7) 8) 45) 9) 32, 10] 68, 11] , 12] at. LO ed ; & e	TCLL: ASCE Plate DOL=1 1.15 Plate DU Exp.; Ce=1.0 Unbalanced design. This truss ha load of 12.0 i overhangs ne Provide adec Plates check about its cen This truss ha chord live loa * This truss ha load of 250.0 panels and a Bottom Chor) This truss de structural wo chord and 1/2 the bottom chor O Graphical pu or the orienta bottom chorc OAD CASE(S)	7-16; Pr=20.0 psf .15); Pg=20.0 psf; DL = 1.15); Is=1.0; I; Cs=1.00; Ct=1.10 snow loads have by s been designed for so concurrent with uate drainage to p ed for a plus or mir ter. s been designed for d nonconcurrent with uate been designed for d nonconcurrent with s been designed for d nonconcurrent with s been designed for d nonconcurrent with s been designed for lb live and 3.0lb det t all panel points ald d, nonconcurrent with sign requires that a od sheathing be ap 2" gypsum sheetron- nord. Thin representation tion of the purlin all Standard	(roof LL Pf=20.4 Rough), Lu=50 een cor or great at roof k or a 10.0 inth any for a liv with BC or a move and location of the thetwith both a minim oplied d ck be a does not long the	: Lum DOL= psf (Lum DC Cat B; Partia)-0-0 sidered for th er of min roof pad of 15.4 p; ve loads. vater ponding gree rotation) psf bottom other live loa e load of 20.0 a rectangle reen the botto DL = 10.0psf ving concentr ted at all mid Top Chord a other live loa um of 7/16" rectly to the t splied directly t depict the s	1.15 DL = Illy nis live sf on g. ds. Dpsf om ated ds. com to size				SEA OLESS SEA OLESS	ROLNA 94

II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-1-12, Interior (1) 2-1-12 to 15-7-11, Exterior(2R) 15-7-11 to 20-5-8, Interior (1) 20-5-8 to 24-1-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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minim



Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	A5G	Monopitch Supported Gable	1	1	Job Reference (optional)	174616815

2-0-0

Structural LLC Thurmont MD - 21788

Scale = 1:70 Loading

TCLL (roof)

TCDL

BCLL

BCDL

WFBS

WEBS

FORCES

TOP CHORD

BOT CHORD

this design.

WEBS

NOTES

1)

OTHERS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

LUMBER

TOP CHORD

BOT CHORD

Snow (Pf/Pg)

Spacing

Code

8-10

15=12-0-0, 16=12-0-0

9=141 (LC 47), 10=282 (LC 67),

11=334 (LC 66), 12=333 (LC 65),

13=332 (LC 64), 14=335 (LC 63),

15=324 (LC 62), 16=316 (LC 61)

16=-2 (LC 14)

(lb) - Maximum Compression/Maximum

2-16=-298/83, 1-2=0/51, 2-3=-357/181,

6-7=-88/73, 7-8=-81/64, 8-9=-14/71,

15-16=-2/2, 14-15=-2/2, 13-14=-2/2,

12-13=-2/2, 11-12=-2/2, 10-11=-2/2

4-14=-286/67, 3-15=-281/195

Unbalanced roof live loads have been considered for

3-4=-248/129, 4-5=-202/105, 5-6=-144/77,

7-11=-274/86, 6-12=-279/87, 5-13=-281/92,

(psf)

20.0

10.0

0.0

10.0

15 4/20 0

2x4 SP No.2 2x4 SP No.2

2x4 SP No.3

except end verticals

1 Row at midpt

Max Grav

Tension

8-10=-157/27

Rigid ceiling directly applied.

Max Horiz 16=157 (LC 16)

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries. Inc. Tue Jul 01 17:57:38 ID:edDe3RcDvYg7BT2hCWrvI5yATeh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-1-0-0 12-0-0 12-0-0 1-0-0 2×4 9 2x4 u 8 24 7¹² 2x4 II 7 23 6 2x4 🛛 22 21 2x4 u 5 8-0-0 20 2x4 II 4 1819 3x4 II 3 17 2 è 10 12 29 11 30 _{2x4 II} 25 15 26 14 27 13 28 2x4 🛛 2x4 II 2x4 II 2x4 ı 2x4 🛛 12-0-0 11-8-12 н 11-8-12 0-3-4 12-0-0 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (loc) Plate Grip DOL 1.15 TC 0.20 Vert(LL) n/a n/a 999 MT20 244/190 Lumber DOL BC Vert(CT) 1 15 0.19 n/a n/a 999 Rep Stress Incr YES WB 0.22 Horz(CT) -0.01 9 n/a n/a IRC2021/TPI2014 Matrix-AS Weight: 82 lb FT = 20%Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) 14) This truss has been designed for a moving concentrated Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. load of 250.0lb live and 3.0lb dead located at all mid II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner panels and at all panel points along the Top Chord and (3E) -1-0-0 to 2-4-14, Exterior(2N) 2-4-14 to 12-0-0 Bottom Chord, nonconcurrent with any other live loads. 2x6 SP No.2 *Except* 8-10:2x4 SP No.3 zone; cantilever left and right exposed ; end vertical left 15) This truss design requires that a minimum of 7/16" exposed;C-C for members and forces & MWFRS for structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to reactions shown; Lumber DOL=1.60 plate grip Structural wood sheathing directly applied, DOL=1.60 the bottom chord. Truss designed for wind loads in the plane of the truss 3) LOAD CASE(S) Standard only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable 9=12-0-0, 10=12-0-0, 11=12-0-0, or consult qualified building designer as per ANSI/TPI 1. 12=12-0-0, 13=12-0-0, 14=12-0-0, 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Max Uplift 9=-21 (LC 46), 10=-4 (LC 16), Exp.; Ce=1.0; Cs=1.00; Ct=1.10 11=-7 (LC 16), 12=-10 (LC 16), Unbalanced snow loads have been considered for this 5) 13=-16 (LC 16), 15=-115 (LC 16),

- desian. 6) This truss has been designed for greater of min roof live
- load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhands non-concurrent with other live loads 7) Plates checked for a plus or minus 5 degree rotation
- about its center.
- Gable requires continuous bottom chord bearing. 8)
- Truss to be fully sheathed from one face or securely 9) braced against lateral movement (i.e. diagonal web). 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 13) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 2 lb uplift at joint 16, 21 lb uplift at joint 9, 4 lb uplift at joint 10, 7 lb uplift at joint 11, 10 lb uplift at joint 12, 16 lb uplift at joint 13 and 115 lb uplift at joint 15.



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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-l	G2G	Attic Supported Gable	1	1	Job Reference (optional)	174616816

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:42 ID:2ddFeGH?Bm2yvqBdSLKGv8y8SrO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:117.6

Plate Offsets (2	X, Y): [15:Edge,0-1-8]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	Spacing2Plate Grip DOL1Lumber DOL1Rep Stress IncrYCodeII	-0-0 .15 .15 /ES RC2021/TPI2014	CSI TC BC WB Matrix-AS	0.93 0.35 0.99	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 192	GRIP 244/190 Ib FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD WEBS JOINTS REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep SP No.2, 22-21:2x6 2x4 SP No.3 Structural wood she except end verticals (5-9-0 max.): 6-9. Rigid ceiling directly 1 Row at midpt 1 Brace at Jt(s): 35, 36 (size) 15=20-0-(26=20-0-(Max Horiz 28=238 (L 27=-470 (Max Grav 15=432 (L 28=433 (L 28=433 (L (b) - Maximum Com Tension 2-28=-331/167, 1-2= 3-4=-16/266, 4-5=-3 6-7=-868/55, 7-8=-8 9-10=-876/110, 10-1 11-12=-16/266, 12-1 13-15=-331/166	t* 4-26,11-17,5-10:2x4 SP No.2 athing directly applied, , and 2-0-0 oc purlins applied. 4-25, 11-18), 16=20-0-0, 17=20-0-0 , 22=20-0-0, 24=20-0-0 , 27=20-0-0, 28=20-0-0 , 27=20-0-0, 28=20-0-0 , 27=20-0-0, 28=20-0-0 , 27=50, 16=172 (LC 12) , LC 13), 16=-468 (LC 49 LC 51), 28=-137 (LC 12) , C 50), 16=172 (LC 13) , LC 42), 20=426 (LC 23), (LC 42), 27=174 (LC 12) , LC 42), 27=174 (LC 12) , LC 42), 27=174 (LC 12) , C 52) pression/Maximum 60/72, 2-3=-164/148, 43/404, 5-6=-876/108, 68/55, 8-9=-868/55, 1=-34/406, 3=-163/149, 13-14=0/72	BOT CHORD WEBS 1) Unbalanced this design. 2) Wind: ASCE Vasd=95mp 11; Exp B; Er (3E) 1-0-01 (3R) 7-0-10 (3R) 7-0-1	27-28=-175/215, 2 24-26=-87/90, 20- 16-17=-106/150, ' 23-25=-209/316, ' 19-21=-48/112, 11 25-26=-1014/0, 21 17-18=-1014/0, 11 11-33=-806/51, 5- 29-36=0/812, 35- 30-34=0/805, 10- 6-29=-160/117, 9- 23-24=-223/17, 11 17-19=-235/173, ' 31-32=-328/199, ' 3-27=-89/389, 12- 7-36=-118/47 roof live loads ha 57-16; Vult=120m h; TCDL=6.0psf; E tolosed; MWFRS (o 2-0-0, Exterior(2 to 10-0-10, Exterior 2-11-6 to 15-11-6 ; cantilever left an and right exposed; VFRS for reactions late grip DOL=1.6 hed for wind loads uds exposed to wi d Industry Gable F Jalified building de 57-16; Pr=20.0 ps	26-27=-1 224-87/5 15-16=-1 21-23=-4 3-19=-21 5-31=-98 3-33=-98 3-33=-98 3-33=-98 3-33=-98 3-33=-98 3-33=-98 3-33=-98 3-33=-98 3-33=-38 3-34=-34=-3 3-34=-34=-3 3-34=-34=-34=-34=-34=-34=-34=-34=-34=-34	75/215, 00, 17-20=-87 06/150, 8/112, 2/318 8/7, 4-31=-80 8/5, 956, 29-32=0/, , 30-35=0/81; 56, 21-22=-18 (117, 9/0, 50/281, 29/200, 189, 8-35=-11 considered for considered for considered for 29/200, 189, 8-35=-11 considered for considered for 29/200, 189, 8-35=-11 considered for considered for (2N) 15-11-6 (2N) 15-11-6 (2N) 15-11-6 (2N	//90, /	 Unt dess Thi: load ove Pro Pla abc Pla abc Pla abc Pla This cho This cho This cho This <	palanced ign. s truss h d of 12.0 rhangs i vide add tes chec but its ce ble requi ss to be ced aga cle studs s truss h rd live k his truss the bott 6-00 tall rd and a ling dea 2, 29-32 d load (33	d snow as bee p psf or non-co equate kked for nter. irres conor fully sl inst lattis s space aad non by 2-0 m cho by 2-0 ny oth d load 5.0psf)	loads have b en designed fo 2.00 times fla ncurrent with drainage to p r a plus or mir ntinuous botto neathed from eral movemer ad at 2-0-0 oc en designed fo nconcurrent w een designed for nconcurrent w een designed for nconcurrent w een designed for nconcurrent w een designed for nconcurrent w so as 3-36, 30-3 on members, "	een considered r greater of min it roof load of 15 other live loads. revent water por ius 5 degree rot: m chord bearing one face or sect it (i.e. diagonal v r a 10.0 psf bott 'tr a 10.0 psf bott 'tr any other live for a live load of where a rectang fit between the with BCDL = 10. nember(s). 4-5, 1 5, 30-34, 10-34; s).25-31, 4-31, 1 ARO AL 594	for this roof live .4 psf on nding. ation g. urely veb). com a loads. 20.0psf gle bottom .0psf. 10-11, Wall 8-33,
	13-15=-331/166	<u>3–-103/149, 13-14=0</u> /7	4) or consult q 4) TCLL: ASCI Plate DOL= 1.15 Plate D Exp.; Ce=1.	ualified building de 57-16; Pr=20.0 ps 1.15); Pg=20.0 ps 0CL = 1.15); Is=1.0 0; Cs=1.00; Ct=1.0	esigner as of (roof LL f; Pf=20.4); Rough 10, Lu=50	s per ANSI/TF .: Lum DOL= 4 psf (Lum DC Cat B; Partia 0-0-0	⊃I 1. 1.15 DL = Ily				NY R	NEER.	

July 2,2025

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Continued on page 2 WARNING - Verify

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tpinst.org) 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	G2G	Attic Supported Gable	1	1	Job Reference (optional)	174616816
Structural, LLC, Thurmont, MD -	21788,	Run: 25.20 S May 13	2025 Print:	25.2.0 S May	/ 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:42	Page: 2

- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 15, 137 lb uplift at joint 28, 470 lb uplift at joint 27 and 468 lb uplift at joint 16.
- 16) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 17) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 19) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:42 ID:2ddFeGH?Bm2yvqBdSLKGv8y8SrO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof	
2411-0320-I	H2G	Roof Special	1	1	Job Reference (optional)	174616817

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:43 ID:5LbAXBN8qplk70_uQE7tuaz0U48-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:77.6

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.64 0.74 0.24	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 126 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sheat except end verticals. Rigid ceiling directly (size) 11=22-0-8 14=22-0-8 20=22-0-8 Max Horiz 21=154 (L Max Uplift 11=-30 (L1 13=-10 (L1 18=-99 (L1 18=-99 (L1 18=-335 (L 15=335 (L 15=335 (L 15=335 (L 15=336 (L 21=348 (L	1) 2) 4, 2, 2, 3, 2,-8, 3) 2,-8, 3), 4) 5, 5), 5), 5), 6) 1), 7, 5), 6) 1), 7, 8, 8) 5), 8, 5), 8, 1, 7, 8, 1, 7, 8, 1, 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Unbalanced I this design. Wind: ASCE Vasd=95mph II; Exp B; End (3E) 0-1-12 tr Corner(3R) 1 21-10-12 zon members and Lumber DOL: Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced s design. Plates check about its cent Gable require Truss to be fit	roof live loads have 7-16; Vult=120mph ; TCDL=6.0psf; BC closed; MWFRS (ero 0 3-1-12, Exterior(2 6-0-0 to 19-0-0, Ex- re; cantilever left ard 1 forces & MWFRS =1.60 plate grip DC ed for wind loads in ds exposed to wind I Industry Gable Err alified building desi 7-16; Pr=20.0 psf; DL = 1.15); Is=1.0; ; Cs=1.00; Ct=1.10 snow loads have building ed for a plus or mini- ter. as continuous botto Illy sheathed from a	been (3-sec n (3-sec DL=5.(1) nveloppe nveloppe for reæologie d (norm d DL=1.6(1) d (norm d Detai g(reading) d (norm d Detai d (norm d (norm) d Detai d (norm) d (norm) d Detai d (norm) d (norm)	considered for cond gust) Opsf; h=25ft; (e) and C-C Cc e) and C-C Cc rows and the face) in the face) is as applicat s per ANSI/TF c: Lum DOL=1 psf (Lum DCL Cat B; Partial ansidered for the agree rotation d bearing. e or securely	r Cat. orner C for ; ss , ole, Pl 1. L.15 DL = Ily	 13) Bevv surfa 18, ' 14) This load pane Bottt 15) This struc chor the t LOAD C 	eled pla ace with 19, 13, ⁻ truss h of 250. els and om Cho truss d ctural w d and 1 pottom of ASE(S)	te or s truss 12. as bee Olb liv at all p rd, noi esign cood sf /2" gy/ chord.) Sta	him required to p chord at joint(s) en designed for a e and 3.0lb deam anel points along nooncurrent with requires that a m leathing be appli osum sheetrock l ndard	rovide full bearing 20, 11, 14, 15, 16, 17, moving concentrated located at all mid g the Top Chord and any other live loads. inimum of 7/16" ed directly to the top be applied directly to	
FORCES	(lb) - Maximum Com Tension 1-21=-306/3, 1-2=-1 3-4=-80/68, 4-6=-86/ 7-8=-88/136, 8-9=-74	pression/Maximum 58/144, 2-3=-127/52, 95, 6-7=-89/134, 4/95, 9-10=-87/59,	9) 10 11	Gable studs s) This truss ha chord live loa) * This truss h on the bottom	spaced at 2-0-0 oc. s been designed fo d nonconcurrent w as been designed n chord in all areas	or a 10.0 ith any for a liv where	D psf bottom other live load e load of 20.0 a rectangle	ds.)psf			A. A	OPTERS	A A A A A A A A A A A A A A A A A A A
BOT CHORD	10-11=-278/54 20-21=-55/127, 19-2 17-18=-17/24, 16-17 13-15=-18/23, 12-13	0=-17/24, 18-19=-17/ =-17/24, 15-16=-17/2 =-18/22, 11-12=-18/2	/24, 23, 12] 22	3-06-00 tall b chord and an) N/A	y 2-00-00 wide will y other members.	fit betv	veen the botto	om		11110		0235	94
WEBS	7-14=-266/13, 6-15= 4-17=-292/76, 3-18= 2-19=-388/216, 8-13	-280/53, 5-16=-278/6 -244/144, =-280/58, 9-12=-275/	60									, ENGIN	EERER
NOTES												WY R.	MILLIN

July 2,2025

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Job	Truss	Truss Type	Qty	Ply	Cooper III Rev.4-Elev - 7-Roof		
2411-0320-I	H2	Roof Special	7	1	Job Reference (optional)	174616818	

Run: 25.20 S May 13 2025 Print: 25.2.0 S May 13 2025 MiTek Industries, Inc. Tue Jul 01 17:57:42 ID:jjWQP2ssSpV571rBffHtQpz0U_L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:71.2

Plate Offsets (X, Y): [5:Edge,0-1-12], [6:Edge,0-1-8], [7:0-3-8,0-3-0], [8:0-3-8,0-2-0], [10:Edge,0-2-12]													
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.95 0.82 0.90	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.36 -0.73 0.45 0.23	(loc) 8-9 8-9 6 8-9	l/defl >723 >357 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18AHS Weight: 132 lb	GRIP 244/190 186/179 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep 9-1:2x4 SP No.2 Structural wood shea except end verticals. Rigid ceiling directly 1 Row at midpt (size) 6=0-3-8, 1 Max Horiz 10=187 (L Max Grav 6=867 (LC (lb) - Maximum Com Tension 1-10=-1036/149, 1-2 2-4=-1317/103, 4-5=	t* 9-7:2x4 SP SS t* 10-1:2x6 SP No.2, athing directly applied. 2-8 10=0-3-8 _C 13) C 2), 10=867 (LC 2) npression/Maximum 2=-4588/558, =-732/85, 5-6=-806/89	3) 4) 5) 6) 7) 8) 9)	TCLL: ASCE Plate DOL=1 1.15 Plate DOL Exp.; Ce=1.0 Unbalanced design. All plates are Plates check about its cen This truss ha chord live loa * This truss ha on the bottor 3-06-00 tall b chord and ar Bearing at jo using ANSI/7 designer sho	7-16; Pr=20.0 psi .15); Pg=20.0 psi; OL = 1.15); Is=1.0 ; Cs=1.00; Ct=1.1 snow loads have I e MT20 plates unle ed for a plus or mi ter. s been designed f ad nonconcurrent has been designed n chord in all area by 2-00-00 wide wi y other members. int(s) 10 considers PI 1 angle to grai uld verify capacity	(roof LL Pf=15.2 ; Rough 0 been cor ss other nus 5 de or a 10.0 with any for a liv s where Il fit betv parallel n formula	: Lum DOL= a psf (Lum DC Cat B; Partia asidered for th wise indicate agree rotation D psf bottom other live load e load of 20.0 a rectangle ween the botto to grain valu a. Building ng surface.	1.15 DL = Illy dd. Dpsf om					
WEBS NOTES 1) Unbalance	9-10=-327/664, 8-9= 6-8=-164/1108 1-9=-408/3678, 2-9= 5-7=-48/595, 8-11=- 7-11=-832/121, 2-8= ed roof live loads have	611/3638, 237/1799, 4-7=-8/42 13/626, 3-11=-307/10 2575/454 been considered for	10 2, 2, 11) This truss ha load of 250.0 panels and a Bottom Chor) This truss de structural wo chord and 1/	s been designed f lb live and 3.0lb d t all panel points a d, nonconcurrent sign requires that od sheathing be a 2" gypsum sheetro	or a move ead location a long the with any a minim pplied d pock be a	ving concentr ted at all mid Top Chord a other live loa um of 7/16" irectly to the to oplied directly	rated and ids. top y to				TH CA	ROJU
this design. 2) Wind: ASCE 7-16: Vult-120mph (3-second cust)			10	the bottom chord.									

Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 16-0-0, Exterior(2R) 16-0-0 to 19-0-0, Interior (1) 19-0-0 to 21-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

OAD CASE(S) Stand



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